

# PARTS & SERVICE MANUAL

### **SWEEP STAR 48**

Low Dump & High Dump Models 48-000 and 48-001

Starting Serial #: GH or GL 4983 January, 2002

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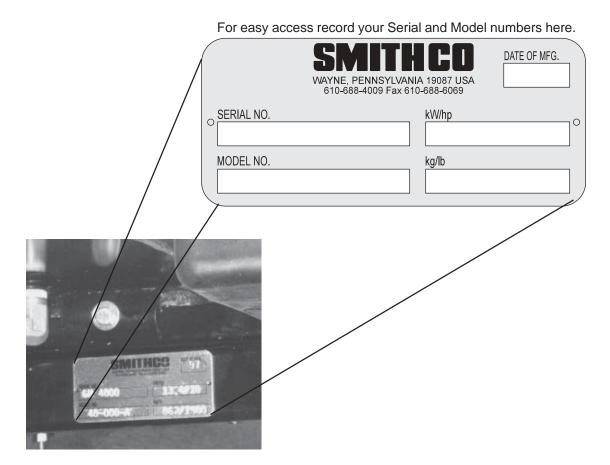
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Thank you for purchasing a **SMITHCO** product.

Read this manual and all other manuals pertaining to the Sweep Star 48 carefully as they have safety, operating, assembly and maintenance instructions. Failure to do so could result in personal injury or equipment damage.

Keep manuals in a safe place after operator and maintenance personnel have read them. Right and left sides are from the operator's seat, facing forward.

All **SMITHCO** machines have a Serial Number and Model Number. Both numbers are needed when ordering parts. The serial number plate on the Sweep Star 48 is located on the right main frame, in front of the oil and gas tanks. Refer to engine manual for placement of engine serial number.



Information needed when ordering replacement parts:

- 1. Model Number of machine
- 2. Serial Number of machine
- 3. Name and Part Number of part
- 4. Quantity of parts

#### SAFE PRACTICES

- 1. It is your responsibility to read this manual and all publications associated with this machine (engine, accessories and attachments).
- 2. Never allow anyone to operate or service the machine or its attachments without proper training and instructions. Never allow minors to operate any equipment.
- 3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
- 4. Wear all the necessary protective clothing and personal safety devises to protect your head, eyes, ears, hands and feet. Operate the machine only in daylight or in good artificial light.
- 5. Inspect the area where the equipment will be used. Beware of overhead obstructions and underground obstacles. Stay alert for hidden hazards.
- 6. Never operate equipment that is not in perfect working order or without decals, guards, shields, or other protective devices in place.
- 7. Never disconnect or bypass any switch.
- 8. Carbon monoxide in the exhaust fumes can be fatal when inhaled, never operate a machine without proper ventilation.
- 9. Fuel is highly flammable, handle with care.
- 10. Keep engine clean. Allow the engine to cool before storing and always remove the ignition key.
- 11. After engine has started, machine must not move. If movement is evident, the neutral mechanism is not adjusted correctly. Shut engine off and readjust so the machine does not move when in neutral position.
- 13. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
- 14. This machine demands your attention. To prevent loss of control or tipping of the vehicle:
  - A. Use extra caution in backing up the vehicle. Ensure area is clear.
  - B. Do not stop or start suddenly on any slope.
  - C. Reduce speed on slopes and in sharp turns. Use caution when changing directions on slopes.
  - D. Stay alert for holes in the terrain and other hidden hazards.
- 15. Before leaving operator's position for any reason:
  - A. Disengage all drives.
  - B. Lower all attachments to the ground.
  - C. Set park brake.
  - D. Shut engine off and remove the ignition key.
- 16. Keep hands, feet and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
- 17. Keep the area of operation clear of all bystanders.
- 18. Never carry passengers.
- 19. Stop engine before making repairs/adjustments or checking/adding oil to the crankcase.
- 20. Use parts and materials supplied by SMITHCO only. Do not modify any function or part.
- 21. Do not remove the radiator cap when the engine is hot. When cooled, loosen cap slightly to the stop to relieve any pressure before removing the cap completely.

#### SPECIFICATIONS FOR SWEEP STAR 48 HIGH LIFT & GROUND DUMP

 WEIGHTS AND DIMENSIONS
 HIGH LIFT
 GROUND DUMP

 Length
 121" (307 cm)
 108" (274 cm)

 Width
 60" (153 cm)
 60" (153 cm)

 Height with Hopper Down
 63" (160 cm)
 63" (160 cm)

Height with Hopper Up 126" (320 cm) na

Wheel Base 70" (179 cm) 70" (179 cm)
Weight 1800 lbs(818 kg) 1700 lbs(772 kg)

SOUND LEVEL (DBA)

At ear level 90 dba
At 3 ft (0.914 m) 91 dba
At 30 ft (9.14 m) 76 dba

ENGINE

Make Kohler
Model# TH18S
Type / Spec# PA-54517
Horsepower 18 Hp (13.4 kw)
Fuel Unleaded 87 Octane
Gasoline Minimum

Cooling System Air Cooled
Lubrication System Full Pressure
Alternator 15 Amp

WHEELS & TIRE Front: One 18 x 9.50 x 8 Multi-rib

Rear: Two 23 x 10.50 x 12 NHS (20 psi max)

Castor: 9 x 3.50 - 4

BRAKES Dynamic Through Hydrostat

PARK BRAKE Hand Operated Lever, Discs on Rear Axle

**SPEED** 

Forward Speed 0 to 10 mph (0-16kph) Reverse Speed 0 to 4 mph (0-6 kph)

BATTERY 12 Volt Automotive IBS type 45-50

Cold Cranking Amps
Ground Terminal Polarity
Maximum Length
Maximum Width
Maximum Height

48 minimum
Negative (-)
9" (23cm)
5.38" (14cm)
9" (23cm)

**FLUID CAPACITY** 

Crankcase Oil See Engine Manual Fuel 5 gallon (19 liters) Hydraulic Fluid 5 gallon (19 liters)

Grade of Hydraulic Fluid SAE 10W-40 API Service SG Motor Oil

#### OPTIONAL EQUIPMENT

48-084 48" Brush Reel Kit (includes pillow blocks and pulley drive)
48-085 48" Finger Reel Kit (includes pillow blocks and pulley drive)
48-120 Dust and Filtration pack - High lift
48-121 Dust and Filtration Pack - Ground Dump





Before servicing or making adjustments to machine, stop engine and remove key from ignition.



Use all procedures and parts prescribed by the manufacturer's. Read the engine manual.

#### LUBRICATION

Use No. 2 General Purpose Lithium Base Grease and lubricate every 100 hours. The Sweep Star 48 has eleven grease fittings.

One on the top of each tower. (High Lift Only)

One on the center of park brake relay on rear axle.

One on hydrostatic pedal under the floorboard.

One on the pillow block bearing on each end of finger/brush reel.

One on castor wheel mount bracket.

One on reel clutch relay.

One on reel clutch belt tightener.

One on rod end of the tailgate cylinder. (High Lift Only)

Every 500 hours of operation, separate the hydrostatic pump from the engine, clean the splined areas and lightly grease the male portion of the pump spline. Use either Dow Corning® G-N Metal Assembly Paste or #77 Assembly Paste (Kohler # 25 357 12-s).

As you remount the pump to the engine, be certain the mating surfaces are clean and free of any foreign material, and that the pump is correctly aligned.

#### HYDRAULIC OIL

- 1. Use SAE 10W-40 API Service SG motor oil.
- 2. For proper warranty, change oil every 500 hours or annually, which ever is first and change the filter after the first 20 hours, then at 100 hours, then every 250 hours thereafter.
- 3. The oil level should be 2" to 21/2" (5 6.4 cm) from top of fill neck when fluid is cold. Do not overfill.
- 4. After changing oil and/or filter, run the machine for a few minutes. Check oil level and for leaks.
- 5. Always use caution when filling hydraulic oil tank or checking level to keep system free of contaminants. Check and service more frequently when operating in extremely cold, hot or dusty conditions.
- 6. If natural color of fluid is now black or smells burnt, it is possible that an overheating problem exists.
- 7. If fluid becomes milky, water contamination may be a problem.
- 8. If either of the above conditions happen, change oil and filter immediately after fluid is cool and find cause. Take fluid level readings when system is cold.
- 9. In extreme temperatures you can use straight weight oil. We recommend SAE 30W API Service SG when hot (above 90°F (33°C)) and SAE 10W API Service SG when cold (below 32°F (0°C)) ambient temperature. Use either motor oil or hydraulic oil, but do not mix.
- 10. Oil being added to the system must be the same as what is already in the tank. Mark tank fill area as to which type you put in.



#### TIRF PRESSURE

Caution must be used when inflating a low tire to recommended pressure. Over inflating can cause tires to explode. Front and rear tires and castor wheel should be 20 psi (1.4bar) maximum. Improper inflation will reduce tire life considerably.

#### WHEEL MOUNTING PROCEDURE

#### **REAR WHEELS**

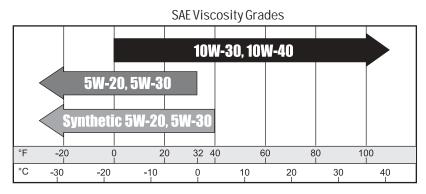
- 1. Set park brake. Turn machine off and remove key.
- 2. Block one of the other wheels.
- 3. Loosen nuts slightly on wheel to be removed.
- 4. Jack up machine being careful not to damage underside of machine.
- 5. Remove nuts, remove wheel.
- 5. Place new wheel on hub lining up bolt holes.
- 6. Torque nuts to 64-74 ft/lb (87-100Nm) using a cross pattern. Retorque after first 10 hours and every 200 hours thereafter.
- 7. Lower machine to ground and remove blocks and jack.

#### FRONT WHEEL

- 1. Set park brake. Turn machine off and remove key.
- 2. Block one of the other wheels.
- 3. Remove cotter pins from each end of the axle.
- 4. Remove axle nuts, machine bushings and axle locks.
- 5. Jack up front of machine being careful not to damage underside of machine.
- 6. Wheel and axle will come out of slots in the u-bracket, pull wheel forward.
- 7. Place new wheel on hub lining up bolt holes.
- 8. Torque nuts to 64-74 ft/lb (87-100Nm) using a cross pattern. Retorque after first 10 hours and every 200 hours thereafter.
- 9. Place wheel back on front fork. Tighten all bolts.
- 10. Lower machine to ground and remove blocks and jack.

#### **ENGINE OIL**

Change and add oil according to charts below. Do not overfill. Use a high quality detergent oil. For Kohler engine use oil classified "For Service SG or SH".



Starting Temperature Range Anticipated Before Next Oil Change

5

#### MAINTENANCE (CONTINUED)

#### **BATTFRY**

Batteries normally produce explosive gases which can cause personal injury. Do not allow flames, sparks or any ignited object to come near the battery. When charging or working near battery, always shield your eyes and always provide proper ventilation.

Battery cable should be disconnected before using "Fast Charge".

Charge battery at 15 amps for 10 minutes or 7 amps for 30 minutes. Do not exceed the recommended charging rate. If electrolyte starts boiling over, decrease charging.

Always remove grounded (-) battery clamp first and replace it last. Avoid hazards by:

- 1. Filling batteries in well-ventilated areas.
- 2. Wear eye protection and rubber gloves.
- 3. Avoid breathing fumes when electrolyte is added.
- 4. Avoid spilling or dripping electrolyte.



Battery Electrolyte is an acidic solution and should be handled with care. If electrolyte is splashed on any part of your body, flush all contact areas immediately with liberal amounts of water. Get medical attention immediately.

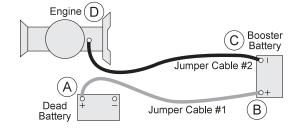
#### JUMP STARTING



Use of booster battery and jumper cables. Particular care should be used when connecting a booster battery. Use proper polarity in order to prevent sparks.

To jump start (negative grounded battery):

- 1. Shield eyes.
- 2. Connect ends of one cable to positive (+) terminals of each battery, first (A) then (B).
- 3. Connect one end of other cable to negative (-) terminal of "good" battery (C).
- Connect other end of cable (D) to engine block on unit being started (NOT to negative (-) terminal of battery)



To prevent damage to other electrical components on unit being started, make certain that engine is at idle speed before disconnecting jumper cables.

#### **TOWING**

When it is necessary to move the Sweep Star 48 without engine running, the by-pass valve built into hydro-static pump must be "open" by turning it counter-clockwise. An "open" valve allows fluid to pass through the wheels freely. When normal, driven, operation is desired, valve should be closed by turning it clockwise. Failure to "close" the valve with engine running means no power to wheels. Tow slowly. 2 mph or less.

The by-pass valve is a  $^{3}/_{8}$  diameter shaft with a  $^{11}/_{64}$  hole for inserting something for leverage so you can turn it. On the high lift it is on the top of the hydrostatic. On the ground level dump it is on hte bottm of the hydrostatic.

#### FILTER PACK

Filter pack can be removed and cleaned by shaking or use a low pressure water hose. Filter will disintagrate if cleaned under high pressure.

#### **TAILGATE**

Must raise hopper to open and close tailgate to disengage the locks.





Before servicing or making adjustments to the machine, stop engine, set park break, block wheels and remove key from ignition.



Follow all procedures and ONLY use parts prescribed by the manufacturer. Read the engine manual before maintenance.

	Daily	As Required	100 Hours	200 Hours	250 Hours	300 Hours	400 Hours	Every 500 Hours/Yearly
§ Engine Oil	С		R	R		R	R	R
§ Engine Oil Filter				R			R	R
Engine for Leaks and Loose Parts	С		С	С		С	С	С
¤ Air Cleaner (Paper Element)		C	С	С		С	С	R
¤ Pre-Cleaner (Every 25 hours)		O	O	С	C	C	С	R
‡ Spark Plugs		R		С			С	R
Idle Speed					С			С
£ Air Cooling System		С	С	С		С	С	С
Belts and Hoses	С				С			С
* Tire Pressure	С		С	С		С	С	С
Fuel Level	С	С						
Fuel Filter		R						R
Hydraulic Oil	С		С	С		С	С	R
**Hydraulic Oil Filter					R			R
Hydraulic System for Leaks and Loose Parts	С		С	С		С	С	С
Battery Electrolyte Level			С	С		С	С	С
Clean Battery Terminals					С			С
† Torque Lug Nuts				С			С	С
Lubricate			С	С		С	С	С
Lubricate Splines on Hydrostatic Pump	Eve	ry 5	<u>00 r</u>	our	3			

C=Check or Clean at specified intervals

R=Replace at specified intervals

The suggested maintenance checklist is not offered as a replacement for the manufacturer's engine manual but as a supplement. You must adhere to the guidelines established by the manufacturer for warranty coverage. In adverse conditions such as dirt, mud or extreme temperatures, maintenance should be more frequent

<sup>\*</sup> Tire pressure: 20 psi (1.4 bar) maximum on all.

<sup>†</sup> Torque tire nuts after the first 10 hours and every 200 hours there after (64 to 74 ft/lb (87-100Nm))

<sup>§</sup> Change Oil and Filter after first 5 hours.

<sup>#</sup> Clean more often under dusty conditions or when airborne debris is present , replace air cleaner parts, if very dirty.

<sup>£</sup> Remove cooling shrouds and clean cooling areas more frequently under extremely dusty and dirty conditions.

<sup>‡</sup> Gap .030 (.76 mm) Torque to 18-22 ft/lb (24-30 Nm)
\*\* Replace hydraulic filter after first 20, 100, and every 250 thereafter.

	Daily	As Required	100 Hours	200 Hours	250 Hours	300 Hours	400 Hours	Every 500 Hours/Yearly
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§ Engine Oil Filter								
Engine for Leaks and Loose Parts								
¤ Air Cleaner (Paper Element)								
¤ Pre-Cleaner (Every 25 hours)								
‡ Spark Plugs								
Idle Speed								
£ Air Cooling System								
Belts and Hoses								
* Tire Pressure								
Fuel Level								
Fuel Filter								
Hydraulic Oil								
**Hydraulic Oil Filter								
Hydraulic System for Leaks and Loose Parts								
Battery Electrolyte Level								
Clean Battery Terminals								
† Torque Lug Nuts								
Lubricate								
Lubricate splines on Hydrostatic Pump		$oxed{oxed}$	$oxed{oxed}$	$oxed{oxed}$	$oxed{oxed}$	$oxed{oxed}$	<u> </u>	$oxed{oxed}$

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#### PARK BRAKE ADJUSTMENT

By turning knob on end of park brake lever you can tighten or loosen brake a small amount. To tighten turn the knob clockwise. To loosen turn counter clockwise. If this is not enough turn clevis on the rear of the brake cable to adjust length of cable. Do not adjust the clevis on the front of the machine.

#### STEERING CHAIN ADJUSTMENT

Steering Sprockets (A) should be level with each other. Check with straight edge. Make any adjustments. Slide Idler Pulley (B) so that it is snug onto the chain. Tighten all nuts and bolts in place.

#### WHEEL 'CREEP' ADJUSTMENT

'Creep' is when engine is running and hydrostatic transmission is in neutral, but due to inadequate alignment, wheels still move. Do the following procedures to stop this motion.

- 1. Lift up and support the unit so rear wheels are off the ground and can turn freely.
- 2. Below seat of machine, on the bottom of the hydrostatic transmission is the shift arm (C). Loosen bolts (D).
- 3. With engine running, move stop (E) so it moves shift arm (C) to center and wheel creep stops.
- 4. Tighten all fasteners and test by using foot pedal linkage to see that the 'creep' is removed.
- 5. The reverse speed is controlled by bolt (F). Turn clockwise to reduce reverse speed and counter clockwise to increase speed.
- 6. Turn the engine off and lower the machine.

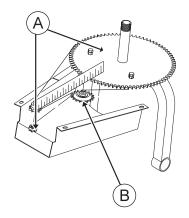
#### RUBBER FINGERS AND NYLON BRUSHES

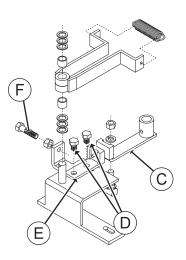
In normal use, rubber fingers and nylon brushes wear out and require replacement. They will break, dislodge, and wear pre-maturely if used in less than ideal conditions.

#### **STORAGE**

When storing, remove the key from the key switch to avoid unauthorized persons from operating machine.

- 1. Before storing clean machine thoroughly.
- 2. Check bolts and nuts, tighten as necessary.
- 3. Make all repairs that are needed and remove any debris.
- 4. Remove the battery, adjust the electrolyte level and recharge it. Store the battery in a dry, dark place.
- 5. Store in a clean and dry area, but NOT near a stove, furnace or water heater which uses a pilot light or any device that can create a spark.
- 6. Engines stored over 30 days need to be protected or drained of fuel to prevent gum from forming in a fuel system or on essential carburetor parts. Check the engine manual and follow the instructions for the storage of the engine.



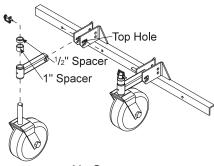


#### REEL HEIGHT ADJUSTMENT

Below are the various ways that the Sweep Star 48 castor wheels can be adjusted to accommodate for the finger/brush reel height. By changing the two spacers around on the castor wheel fork you can experience a range of ground clearances on the finger/brush reel. Keep both castor wheels at the same height.



#### These clearances change as the brush and finger reels wear.

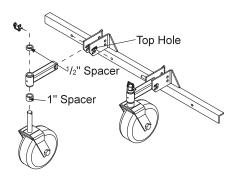


No Spacer

Top Hole

#### **Ground Clearance**

Brush Reel <sup>7</sup>/<sub>8</sub>" Finger Reel <sup>1</sup>/<sub>2</sub>"



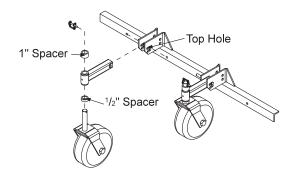
1" Spacer

Top Hole

#### **Ground Clearance**

Brush Reel <sup>5</sup>/<sub>8</sub>"

Finger Reel 11/4"



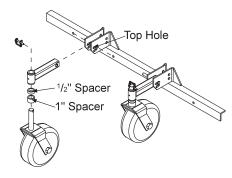
1/2" Spacer

Top Hole

#### **Ground Clearance**

Brush Reel 3/4"

Finger Reel 11/8"



1" Spacer

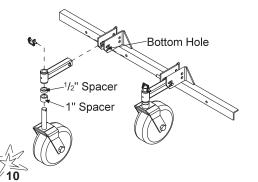
1/2" Spacer

Top Hole

#### **Ground Clearance**

Brush Reel 11/8"

Finger Reel 17/16"



1" Spacer(2 per)

1/2" Spacer(1 per)

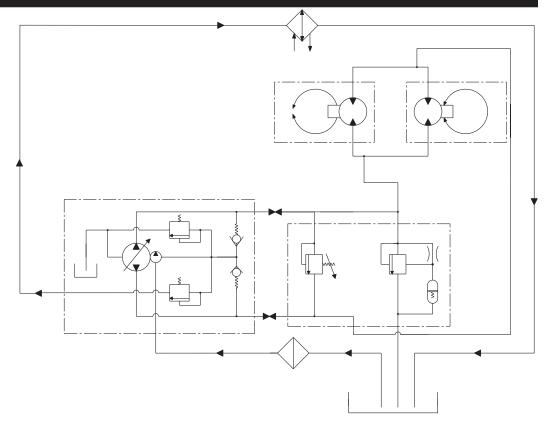
**Bottom Hole** 

#### **Ground Clearance**

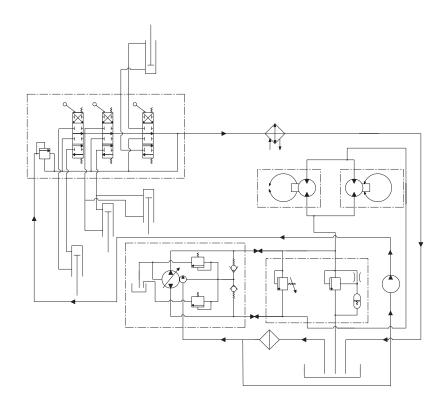
Brush Reel 11/2"

Finger Reel 17/8"

# GROUND DUMP HYDRAULIC SCHEMATIC

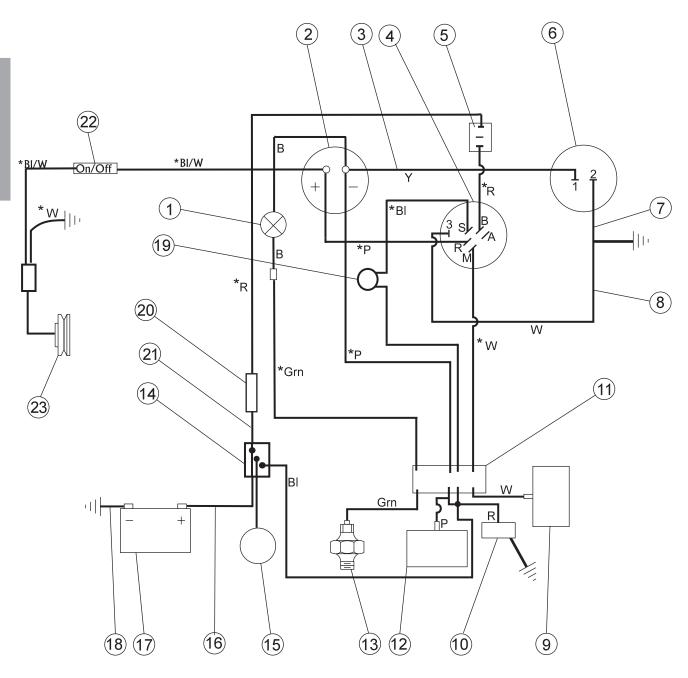


# HIGH LIFT HYDRAULIC SCHEMATIC





Color Code Chart			
BI	Blue		
Br	Brown		
Υ	Yellow		
Grn	Green		
0	Orange		
R	Red		
В	Black		
Р	Purple		

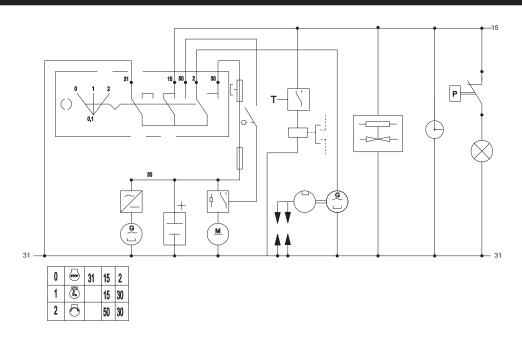




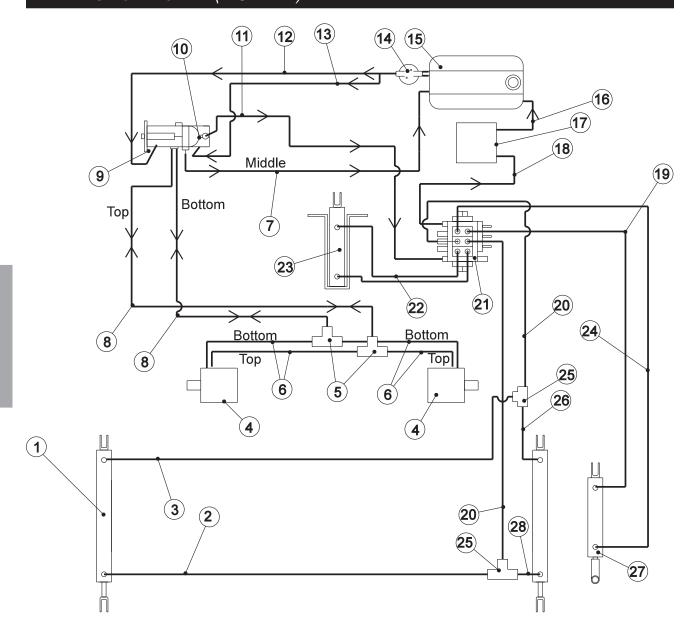
# WIRING DIAGRAM PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITIY
1	50-359	Oil Pressure Warning Indicator Light	1
2	22-003	Ammeter	1
3	76-269	Power Wire to Hour Meter	
4	13-288	Key Switch with Hardware	1
	76-310	Key Set	1
5	34-146	Panel Mount Circuit Breaker	1
	34-145	Circuit Breaker Boot	1
6	12-017	Hour Meter	1
7	76-259	Ground Wire for Hour Meter	1
8	76-260	Ground Wire for Ignition Switch	1
9		Ignition Module (Part of Engine)	
10		Fuel Shut-Off Solenoid (Part of Engine)	
11		Plug-In Connector (Wire Harness & Engine Wire Harnes	ss)
12		Rectifier (Part of Engine)	
13		Oil Sender (Part of Engine)	
14	42-113	Cranking Relay (Part Of Engine)(Kohler #25 435 02)	
15		Starter (Part of Engine)	
16	48-157	Red Battery Cable	1
	8892-21	Hose Wrap	1
17	22-073	Battery	1
	48-166	Battery Holddown	2
18	48-147	Black Battery Cable	1
19	14-272	Seat Switch	1
20	8975	30 Amp Curcuit Breaker	1
	8977	Circuit Breaker Boot	1
21	48-144	Circuit Breaker Wire	1
22	15-314	Toggle Switch	1
	15-472	Boot	1
23	78-368	Electric Clutch	1
*	76-325	Wire Harness (Includes all wire colors with *)	1

# WIRING SCHEMATIC



### HYDRAULIC DIAGRAM (HIGH LIFT)



76-023 3-Bank Hydraulic Valve

Relief Valve set at 2000 PSI(137.93 Bar)

76-322 Hydrostat Pump

Displacement Variable to .913 in<sup>3</sup>/R(15 cc<sup>3</sup>/R)

14.23 GPM(53.85LPM) at 3600 RPM

Max Operating Speed 3600 RPM

Rated Pressure 3000 PSI(206.8 Bar)
Max Pressure 4500 PSI(310 Bar)
Max Inlet Vacuum 5 in Hg(.17 Bar)
Max Inlet Temperature 220°F(104°C)
Max Allowable Case Pressure 25 PSI(1.72 Bar)

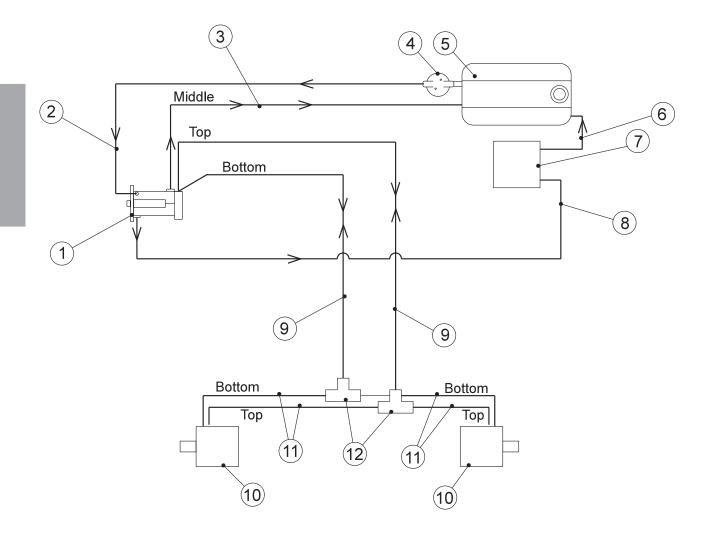
76-323 Gear Pump

Displacement .366 in<sup>3</sup>/R(6 cm<sup>3</sup>/R) 5.7GPM(21.6 IPM)



# HYDRAULIC DIAGRAM PARTS LIST (HIGH LIFT)

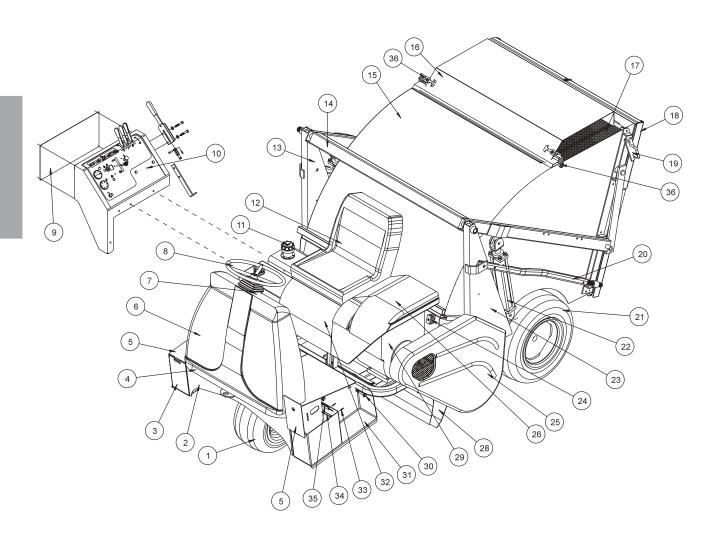
REF#	PART#	DESCRIPTION	QUANTITY
1	76-242	Hydraulic Cylinder	2
2	48-012	Hydraulic Hose	1
3	48-013	Hydraulic Hose	1
4	76-321	Wheel Motor	2
5	34-057	Tee	2
6	48-015	Hydraulic Hose	4
7	8810-19	Hose <sup>5</sup> / <sub>8</sub> ID	1
	18-077	Hose Clamp	2
	8895-22	Hose Wrap 22"	1
	18-222	Hose Clamp	2
8	48-016	Hydraulic Hose	2
· ·	8895-44	Hose Wrap 44"	2
	18-222	Hose Clamp	4
9	76-322	Hydrostatic Pump	1
10	76-323	Gear Pump	1
11	48-020	Hydraulic Hose	1
• • •	8895-40	Hose Wrap 40"	1
	18-222	Hose Clamp	2
12	8810-07	Hose <sup>5</sup> / <sub>8</sub> ID x 7"	1
12	18-077	Hose Clamp	2
	8895-8	Hose Wrap 8"	1
	18-222	Hose Clamp	2
13	8832-19	Hose <sup>3</sup> / <sub>4</sub> ID x 19"	1
.0	18-040	Hose Clamp	2
	8895-22	Hose Wrap 22"	1
	18-222	Hose Clamp	2
14	48-083	Oil Filter	1
	48-083-01	Filter Element (replacement only)	1
15	48-135	Oil Tank	1
16	48-062	Hydraulic Hose	1
	8895-67	Hose Wrap 67"	1
	18-222	Hose Clamp	2
17	34-105	Oil Cooler	1
18	48-021	Hydraulic Hose	1
	8895-92	Hose Wrap 92"	1
	18-222	Hose Clamp	2
19	48-018	Hydraulic Hose	1.
	8895-73	Hose Wrap 73"	1
	18-222	Hose Clamp	2
20	76-115	Hydraulic Hose	2
	8895-74	Hose Wrap 74"	2
	18-222	Hose Clamp	4
21	76-023	3-Bank Hydraulic Valve	1
22	48-019	Hydraulic Hose	2
	8895-54.5	Hose Wrap 54.5"	2
	18-222	Hose Clamp	4
23	75-634	Hydraulic Cylinder	1
24	48-017	Hydraulic Hose	1
	8895-73	Hose Wrap 73"	1
	18-222	Hose Clamp	2
25	18-173	Tee <sup>3</sup> / <sub>8</sub> Junction Union	2
26	48-014	Hydraulic Hose	1
27	75-714	Hydraulic Cylinder	1
28	27-065	Hydraulic Hose	1



# HYDRAULIC DIAGRAM PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	42-003	Hydrostatic Pump	1
2	8917-17	Hose <sup>3</sup> / <sub>4</sub> ID	1
	18-077	Hose Clamp	2
	8895-20	Hose Wrap 20"	1
	18-222	Hose Clamp	2
3	8810-19	Hose <sup>5</sup> / <sub>8</sub> ID	1
	18-077	Hose Clamp	2
	8895-34.5	Hose Wrap 34.5"	1
	18-222	Hose Clamp	2
4	23-006	Oil Filter	1
	23-031	Filter Element (replacement only)	1
5	48-135	Oil Tank	1
6	48-060	Hydraulic Hose	1
	8895-73.5	Hose Wrap 73.5"	1
	18-222	Hose Clamp	2
7	34-105	Oil Cooler	1
8	76-104	Hydraulic Hose	1
	8895-20	Hose Wrap 20"	1
	18-222	Hose Clamp	2
9	48-016	Hydraulic Hose	2
	8895-60	Hose Wrap 60"	2
	18-222	Hose Clamp	4
10	76-321	Wheel Motor	2
11	48-015	Hydraulic Hose	4
12	34-057	Tee	2
42-003 Hydros	stat Pump		
Displaceme	nt	Variable to .913 in <sup>3</sup> /R(15 cc <sup>3</sup> /R)	
		14.23 GPM(53.85LPM) at 3600 RPM	
Max Operat	ing Speed	3600 RPM	
Rated Press	sure	3000 PSI(206.8 Bar)	
Max Pressu	re	4500 PSI(310 Bar)	
Max Inlet Va	cuum	5 in Hg(.17 Bar)	
Max Inlet Te	mperature	220°F(104°C)	
	ole Case Pressure	25 PSI(1.72 Bar)	
		'	

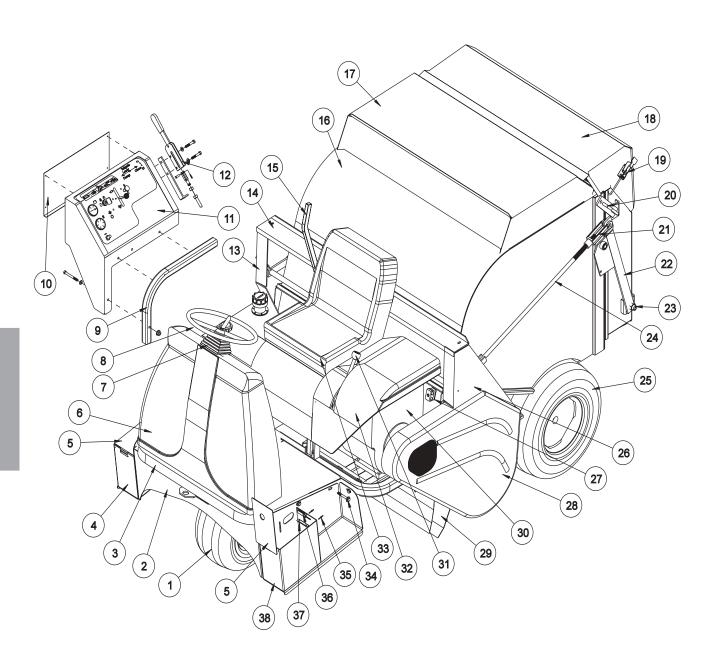




# BODY AND FRAME PARTS LIST (HIGH LIFT)

1 60-130 Tire and Wheel 1 60-130-01 Tire 18 x 9.5 x 8 1 60-130-02 Wheel 1 1 60-130-	REF#	PART#	DESCRIPTION	QUANTITY
60-130-01 Tire 18 x 9.5 x 8 1 60-130-02 Wheel 1 1 60-130-02 Wheel 1 1 60-130-02 Wheel 1 1 60-130-02 Wheel 1 1 60-130-02				
60-130-02 Wheel  48-158 Front Cover  HB-14-20-075 Bolt ⅓-20 x ³/₄  HW-14 Washer ⅓a  44 HW-14  Washer ⅓a  48-161  48-173 Main Frame  1 1  5 48-159 Battery Box Cover  2 8803-10 Black Trim 10° (along side closest to machine)  6 76-264 Nose Cone  76-354 2⅓ # ABC Dry Chemical Fire Extinguisher  7 76-362 Mini Tilt Steering Boxl (comes with 76-362)  8 76-303 Steering Wheel with Cap  7 76-364 Tilt Steering Boxl (comes with 76-362)  1 76-303 Cap Nut ⅓-18  1 9 76-214 Side Panel  10 76-265 Console  1 14-270 High Back Seat with Smithco Logo  1 14-270 High Back Seat with Smithco Logo  1 14-80-07 Hopper  1 14-80-07 Hopper  1 18-80-07 Hopper  1 19 48-022 Hopper Screen Cover  1 1 48-023 Tailgate Hinge  1 2 48-021 Tilgate Free  1 1 19 48-022 Hopper Screen  1 1 19 48-023 Tailgate Screen  1 19 48-023 Tailgate Screen  1 19 48-023 Tailgate Screen  1 19 48-033 Tailgate Screen  1 19 48-034 Tilre 23-5 X 10.5 x 12  2 76-242 Lift Cylinder  2 1 48-009 Left Tower  1 1 48-09 Left Gover  1 1 48-09 Left Tower  2 2 48-09 Left Tower  3 3-175-01 Tire 23.5 x 10.5 x 12  2 48-09 Left Tower  3 48-09 Left Tower  4 48-09 Left To	'			
2				
HB-14-20-075   Bolt ½-2 0 x ¾-1   4	2			•
HW-14	2			
HNFL-14-20				
3				
4 48-173 Main Frame 1 5 48-159 Battery Box Cover 2 8803-10 Black Trim 10" (along side closest to machine) 2 6 76-264 Nose Cone 1 7 76-364 2" # ABC Dry Chemical Fire Extinguisher 1 7 76-362 Mini Till Steering Mechanism 1 7 6-364 Till Steering Boot (comes with 76-362) 1 8 76-302 Steering Wheel with Cap 1 7 76-303 Cap Nut ⅓-18 1 9 76-214 Side Panel 1 10 76-265 Console 1 11 48-135 Oil Tank 1 13-586 Filler Breather 1 12 76-285 Seat 1 14-270 High Back Seat with Smithco Logo 1 13 48-008 Right Tower 1 14 48-044 Arm Pivot Tube 1 15 48-007 Hopper 1 16 48-007 Hopper Creen Cover 1 17 48-022 Hopper Screen Cover 1 18 48-023 Tailgate Screen 1 19 48-053 Tailgate Hinge 2 20 48-061 Hopper Dump Arm 2 21 33-175-01 Tire 23.5 x 10.5 x 12 2 22 76-242 Lift Cylinder 2 23 34-09 Left Tower 1 24 48-029 Grass Chute 1 25 48-109 Left Tower 1 26 48-100 Left Tower 1 27 6-242 Lift Cylinder 2 28 48-028 Front Baffle 1 29 76-324 English Cover 1 30 HNL-38-16 Lock Nut ⅓-16 3 31 HNL-38-16 Nagnet Backet 4 34 48-165 Magnet Backet 4 35 48-164 Magnet 2 36 48-164 Magnet 2 37 HNL-38-16 Magnet 1 38 HNL-38-16 Magnet 1 39 HNS-18-1650 Rivet ⅓x ⅓-16 4 30 HNL-38-16 Magnet Backet 2 30 48-164 Magnet 2 31 HNL-38-16 Magnet 2 32 48-164 Magnet 2 34 48-165 Magnet Backet 2 35 48-164 Magnet 2 36 15-437 Latch 1 2 E	2			
5         48-159         Battery Box Cover         2           6         76-264         Nose Cone         1           76-354         2½ # ABC Dry Chemical Fire Extinguisher         1           7         76-362         Mini Till Steering Mechanism         1           76-364         Tilt Steering Boot (comes with 76-362)         1           8         76-302         Steering Wheel with Cap         1           76-303         Cap Nut ½ - 18         1           9         76-214         Side Panel         1           10         76-265         Console         1           11         48-135         Oil Tank         1           12         76-285         Seat         1           14-270         High Back Seat with Smithco Logo         1           13         48-008         Right Tower         1           14         48-044         Arm Pivot Tube         1           15         48-007         Hopper         1           16         48-004         Hopper Screen Cover         1           17         48-022         Hopper Dump Arm         2           19         48-053         Tailgate Hinge         2 <td< td=""><td></td><td></td><td>•</td><td></td></td<>			•	
8803-10 Black Trim 10" (along side closest to machine) 76-264 Nose Cone 76-354 2"/₂ # ABC Dry Chemical Fire Extinguisher 76-362 Mini Tilt Steering Mechanism 1 76-362 Mini Tilt Steering Boot (comes with 76-362) 1 Tilt Steering Wheel with Cap 76-303 Cap Nut ¾₂-18 9 76-214 Side Panel 10 76-265 Console 11 14 48-135 Oil Tank 11 48-135 Oil Tank 11 13-586 Filler Breather 12 76-285 Seat 11 14-270 High Back Seat with Smithco Logo 11 44 48-008 Right Tower 14 48-008 Right Tower 15 48-007 Hopper 16 48-004 Hopper Screen Cover 17 48-022 Hopper Screen Cover 18 48-023 Tailgate 19 48-023 Tailgate Screen 19 48-053 Tailgate Hinge 20 48-061 Hopper Dump Arm 21 33-175- Tire and Wheel 22 33-175-01 Tire 23.5 x 10.5 x 12 23 3175-02 Wheel 24 48-029 Grass Chute 25 48-112 Belt Guard 48-047 Side Belt Guard Tab 48-047 Side Belt Guard Tab 48-048 Front Baffle 19 48-059 Grass Chute 10 48-061 Right Step 11 48-160 Right Step 12 48-160 Right Step 13 48-160 Right Step 14 48-160 Right Step 15 48-160 Right Step 16 48-160 Right Step 17 48-160 Right Step 18 48-160 Magnet Bracket 19 48-161 Latch				
6 76-264 Nose Cone 76-354 21/2 # ABC Dry Chemical Fire Extinguisher 1 76-362 Mini Tilt Steering Mechanism 1 76-364 Tilt Steering Boot (comes with 76-362) 1 76-364 Tilt Steering Boot (comes with 76-362) 1 76-303 Cap Nut ⅓s-18 1 76-302 Steering Wheel with Cap 1 76-303 Cap Nut ⅓s-18 1 76-303 Cap Nut ⅓s-18 1 76-304 Side Panel 1 76-214 Side Panel 1 76-265 Console 1 76-265 Console 1 76-265 Console 1 76-285 Seat 1 76-285 Seat 1 76-285 Seat 1 76-285 Seat 1 76-270 High Back Seat with Smithco Logo 1 76-285 Seat 1 76-285 Seat 1 76-270 High Back Seat with Smithco Logo 1 76-285 Seat 1 76-270 High Back Seat with Smithco Logo 1 76-285 Seat 1 76-285 Sea	5		•	
76-354         2½ # ABC Dry Chemical Fire Extinguisher         1           76-362         Mini Till Steering Mechanism         1           76-364         Tilt Steering Boot (comes with 76-362)         1           8         76-302         Steering Wheel with Cap         1           76-303         Cap Nut ½ -18         1           9         76-214         Side Panel         1           10         76-265         Console         1           11         48-135         Oil Tank         1           11         48-135         Oil Tank         1           12         76-285         Seat         Filler Breather         1           12         76-285         Seat         1           14-270         High Back Seat with Smithco Logo         1           13         48-008         Right Tower         1           14         48-044         Arm Pivot Tube         1           15         48-007         Hopper         1           16         48-004         Hopper Screen Cover         1           17         48-022         Hopper Screen Cover         1           18         48-03         Tailgate Hinge         2				
7 76-362 Mini Tilt Steering Mechanism 1 76-364 Tilt Steering Boot (comes with 76-362) 1 8 76-302 Steering Wheel with Cap 1 76-303 Cap Nut \$\frac{1}{9}\$ - 18 1 9 76-214 Side Panel 1 10 76-265 Console 1 11 48-135 Oil Tank 1 13-566 Filler Breather 1 12 76-285 Seat 1 14-270 High Back Seat with Smithco Logo 1 13 48-008 Right Tower 1 14 48-044 Arm Pivot Tube 1 15 48-007 Hopper 1 16 48-004 Hopper Screen Cover 1 17 48-022 Hopper Screen Cover 1 18 48-033 Tailgate Screen 1 19 48-053 Tailgate 1 19 48-053 Tailgate Hinge 2 20 48-061 Hopper Dump Arm 2 21 33-175 Tire and Wheel 2 22 76-242 Lift Cylinder 2 22 76-242 Lift Cylinder 2 23 48-009 Left Tower 1 24 48-029 Grass Chute 1 25 48-112 Belt Guard Tab 1 26 48-180 Engine Kohler T-18 1 27 48-028 Front Baffle 1 28 48-028 Front Baffle 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt \$\frac{1}{9}_t\$ See Seat Support 1 31 48-160 Right Sky \$\frac{1}{9}_t\$ See Seat Support 1 32 48-026 Seat Support 1 33 HRS-18-050 Rivet \(\frac{1}{9}_t\$ See Seat Support 1 34 48-165 Magnet Backet 2 35 48-164 Magnet 1 36 48-164 Magnet 2 36 15-437 Latch 2 37 50-242 Litch Latch 2 38 48-164 Magnet 2 39 48-164 Magnet 2 30 HB-38-16-300 Rivet \(\frac{1}{9}_t\$ Sky \$\frac{1}{9}_t\$ Sk	6			
76-364   Tilt Steering Boot (comes with 76-362)   1   76-302   Steering Wheel with Cap   1   76-303   Cap Nut % - 18   1   1   1   1   1   1   1   1   1				•
8	7			•
76-303				1
9 76-214 Side Panel 1 10 76-265 Console 1 11 48-135 Oil Tank 1 12 76-285 Seat 1 14-270 High Back Seat with Smithco Logo 1 13 48-008 Right Tower 1 14 48-044 Arm Pivot Tube 1 15 48-007 Hopper 1 16 48-004 Hopper Screen Cover 1 17 48-022 Hopper Screen 1 18 48-005 Tailgate 1 19 48-023 Tailgate 1 19 48-023 Tailgate Hinge 2 20 48-061 Hopper Dump Arm 2 21 33-175 Tire and Wheel 2 22 76-242 Lift Cylinder 2 23 48-009 Left Tower 1 24 48-029 Grass Chute 1 25 48-112 Belt Guard Tab 1 26 48-180 Engine Cover 1 27 76-324 Engine Kohler T-18 1 28 48-028 Front Baffle 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt *\frac{3}{3}\text{-16}\text{-16} 3 3 HW-38 Washer *\frac{3}{3}\text{-16} 4 3 48-026 Seat Support 1 34 48-165 Magnet Bracket 2 35 48-164 Magnet 1 36 48-164 Magnet 2 36 15-437 Latch 1	8	76-302		1
10 76-265 Console 1 11 48-135 Oil Tank 1 1 31-586 Filler Breather 1 12 76-285 Seat 1 14-270 High Back Seat with Smithco Logo 1 13 48-008 Right Tower 1 14 48-044 Arm Pivot Tube 1 15 48-007 Hopper Screen Cover 1 16 48-004 Hopper Screen Cover 1 17 48-022 Hopper Screen 1 18 48-005 Tailgate 1 19 48-053 Tailgate 1 19 48-053 Tailgate Hinge 2 20 48-061 Hopper Jailgate 2 20 48-061 Hopper Jailgate 2 21 33-175 Tire and Wheel 2 22 33-175-01 Tire 23.5 x 10.5 x 12 23 33-175-02 Wheel 2 24 48-029 Grass Chute 1 25 48-112 Belt Guard 1 48-047 Side Belt Guard Tab 1 26 48-180 Engine Cover 1 27 76-324 Engine Kohler T-18 1 28 48-028 Front Baffle 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt <sup>3</sup> / <sub>8</sub> -16 x 3 31 48-160 Right Step 1 38 48-050 Right Step 1 38 48-06 Seat Support 1 38 48-06 Seat Support 1 38 48-164 Magnet 2 39 48-164 Magnet 2 30 48-164 Magnet 2 31 48-164 Magnet 2 31 48-164 Magnet 2 32 48-164 Magnet 2 33 48-164 Magnet 2 34 48-164 Magnet 2 35 48-164 Latch 2		76-303	Cap Nut 5/8 - 18	1
11	9	76-214	Side Panel	1
13-586 Filler Breather 1 12 76-285 Seat 1 14-270 High Back Seat with Smithco Logo 1 13 48-008 Right Tower 1 14 48-044 Arm Pivot Tube 1 15 48-007 Hopper 1 16 48-004 Hopper Screen Cover 1 17 48-022 Hopper Screen 1 18 48-005 Tailgate 1 19 48-023 Tailgate Screen 1 19 48-033 Tailgate Hinge 2 20 48-061 Hopper Dump Arm 2 21 33-175 Tire and Wheel 2 23 33-175-01 Tire 23.5 x 10.5 x 12 2 33-175-02 Wheel 2 22 76-242 Lift Cylinder 2 23 48-009 Left Tower 1 24 48-029 Grass Chute 1 25 48-112 Belt Guard 1 26 48-180 Engine Cover 1 27 48-047 Side Belt Guard Tab 1 28 48-047 Side Belt Guard Tab 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt ⅓ -16 x 3 3 HW-38 HNTL-38-16 Lock Nut ⅓ -16 x 3 3 HNS-18-050 Rivet ⅓ x ⅓ 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10	76-265	Console	1
12 76-285 Seat	11	48-135	Oil Tank	1
14-270       High Back Seat with Smithco Logo       1         13       48-088       Right Tower       1         14       48-044       Arm Pivot Tube       1         15       48-007       Hopper       1         16       48-004       Hopper Screen Cover       1         17       48-022       Hopper Screen       1         18       48-005       Tailgate       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175-01       Tire and Wheel       2         23       33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-099       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ¾s -16 x 3       3         HW-1-38-16		13-586	Filler Breather	1
13	12	76-285	Seat	1
13		14-270	High Back Seat with Smithco Logo	1
14       48-044       Arm Pivot Tube       1         15       48-007       Hopper       1         16       48-004       Hopper Screen Cover       1         17       48-022       Hopper Screen       1         18       48-025       Tailgate       1         18       48-023       Tailgate Screen       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175-01       Tire and Wheel       2         23       33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt <sup>3/a</sup> -16 x 3       3         HW-38       Wa	13	48-008		1
15			9	1
16       48-004       Hopper Screen Cover       1         17       48-022       Hopper Screen       1         18       48-023       Tailgate       1         48-023       Tailgate Screen       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175       Tire and Wheel       2         23       33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-112       Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ${}^3e_1$ -16 x 3       3         HW-38       Washer ${}^3e_1$ 3         HW-39       Washer ${}^3e_1$				1
17       48-022       Hopper Screen       1         18       48-005       Tailgate       1         48-023       Tailgate Screen       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175       Tire and Wheel       2         33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ¾-16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HW-38       Washer 10       3 <td< td=""><td></td><td></td><td></td><td></td></td<>				
18       48-005       Tailgate       1         48-023       Tailgate Screen       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175       Tire and Wheel       2         33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt <sup>3</sup> / <sub>8</sub> -16 x 3       3         HW-38       Washer <sup>3</sup> / <sub>8</sub> 3         HNTL-38-16       Lock Nut <sup>3</sup> / <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1 <t< td=""><td></td><td></td><td></td><td></td></t<>				
48-023       Tailgate Screen       1         19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175       Tire and Wheel       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/s -16 x 3       3         HW-38       Washer ³/s       3         HNTL-38-16       Lock Nut ³/s - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/s x ¹/2       4         HW-6       Washer #6       4         48-165				•
19       48-053       Tailgate Hinge       2         20       48-061       Hopper Dump Arm       2         21       33-175       Tire and Wheel       2         33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-112       Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3       3         HW-38       Washer <sup>3</sup> / <sub>8</sub> 3         HNTL-38-16       Lock Nut <sup>3</sup> / <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet <sup>1</sup> / <sub>8</sub> x <sup>1</sup> / <sub>2</sub> <	10			
20	10			
21       33-175       Tire and Wheel       2         33-175-01       Tire 23.5 x 10.5 x 12       2         33-175-02       Wheel       2         22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       4				
33-175-01 Tire 23.5 x 10.5 x 12 33-175-02 Wheel 2 22 76-242 Lift Cylinder 2 2 23 48-009 Left Tower 1 24 48-029 Grass Chute 1 25 48-112 Belt Guard 48-047 Side Belt Guard Tab 1 26 48-180 Engine Cover 1 28 48-028 Front Baffle 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt ³/ <sub>8</sub> -16 x 3 HW-38 Washer ³/ <sub>8</sub> 1 31 48-160 Right Step 1 32 48-026 Seat Support 33 HRS-18-050 Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 48-164 Washer #6 34 48-165 Magnet Bracket 35 48-164 Magnet 22 2 23 33-175-02 Wheel 24 25 2 25 248-029 Grass Chute 1 26 48-029 Grass Chute 1 27 28 48-028 Front Baffle 1 1 28 48-020 Front Baffle 1 1 29 76-324 Engine Kohler T-18 1 1 30 HB-38-16-300 Bolt ³/ <sub>8</sub> -16 x 3 3 HW-38 Washer ³/ <sub>8</sub> 3 HNTL-38-16 Lock Nut ³/ <sub>8</sub> - 16 3 3 HRS-18-050 Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4 48-026 Seat Support 3 5 48-04 Magnet Bracket 3 6 15-437 Latch				
33-175-02 Wheel 2 22 76-242 Lift Cylinder 2 23 48-009 Left Tower 1 24 48-029 Grass Chute 1 25 48-112 Belt Guard 1 48-047 Side Belt Guard Tab 1 26 48-180 Engine Cover 1 28 48-028 Front Baffle 1 29 76-324 Engine Kohler T-18 1 30 HB-38-16-300 Bolt <sup>3</sup> / <sub>8</sub> -16 x 3 3 HW-38 Washer <sup>3</sup> / <sub>8</sub> 3 HNTL-38-16 Lock Nut <sup>3</sup> / <sub>8</sub> - 16 3 1 48-160 Right Step 1 8803-10 Black Trim 10" 1 32 48-026 Seat Support 1 33 HRS-18-050 Rivet <sup>1</sup> / <sub>8</sub> x <sup>1</sup> / <sub>2</sub> 4 HW-6 Washer #6 4 34 48-165 Magnet Bracket 2 35 48-164 Magnet 2 36 15-437 Latch 2	21			
22       76-242       Lift Cylinder       2         23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
23       48-009       Left Tower       1         24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>9</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2	22			
24       48-029       Grass Chute       1         25       48-112       Belt Guard       1         48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ${}^{3}/{}_{8}$ -16 x 3       3         HW-38       Washer ${}^{3}/{}_{8}$ 3         HNTL-38-16       Lock Nut ${}^{3}/{}_{8}$ - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ${}^{1}/{}_{8}$ x ${}^{1}/{}_{2}$ 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
25       48-112       Belt Guard       1         48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
48-047       Side Belt Guard Tab       1         26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
26       48-180       Engine Cover       1         28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2	25			
28       48-028       Front Baffle       1         29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt $\frac{3}{8}$ -16 x 3       3         HW-38       Washer $\frac{3}{8}$ 3         HNTL-38-16       Lock Nut $\frac{3}{6}$ - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet $\frac{1}{8}$ x $\frac{1}{2}$ 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2	0.0			
29       76-324       Engine Kohler T-18       1         30       HB-38-16-300       Bolt ³/ <sub>8</sub> -16 x 3       3         HW-38       Washer ³/ <sub>8</sub> 3         HNTL-38-16       Lock Nut ³/ <sub>8</sub> - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ¹/ <sub>8</sub> x ¹/ <sub>2</sub> 4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
30 HB-38-16-300 Bolt <sup>3</sup> / <sub>8</sub> -16 x 3 3				
HW-38       Washer 3/8       3         HNTL-38-16       Lock Nut 3/8 - 16       3         31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet 1/8 x 1/2       4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2			•	
HNTL-38-16 Lock Nut 3/8 - 16 3  48-160 Right Step 1 8803-10 Black Trim 10" 1  32 48-026 Seat Support 1  33 HRS-18-050 Rivet 1/8 x 1/2 4 HW-6 Washer #6 4  34 48-165 Magnet Bracket 2  35 48-164 Magnet 2  36 15-437 Latch 2	30			
31       48-160       Right Step       1         8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ½ x ½       4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
8803-10       Black Trim 10"       1         32       48-026       Seat Support       1         33       HRS-18-050       Rivet ½ x ½       4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
32       48-026       Seat Support       1         33       HRS-18-050       Rivet ½ x ½       4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2	31			1
33       HRS-18-050       Rivet ½ x ½       4         HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2				
HW-6       Washer #6       4         34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2		48-026		
34       48-165       Magnet Bracket       2         35       48-164       Magnet       2         36       15-437       Latch       2	33	HRS-18-050		
35 48-164 Magnet 2 36 15-437 Latch 2		HW-6	Washer #6	
36 15-437 Latch 2		48-165		
36 15-437 Latch 2	35	48-164	Magnet	2
	36	15-437		2
		HRS-316-1125	Steel Pop Rivet 3/16 x 11/8	6



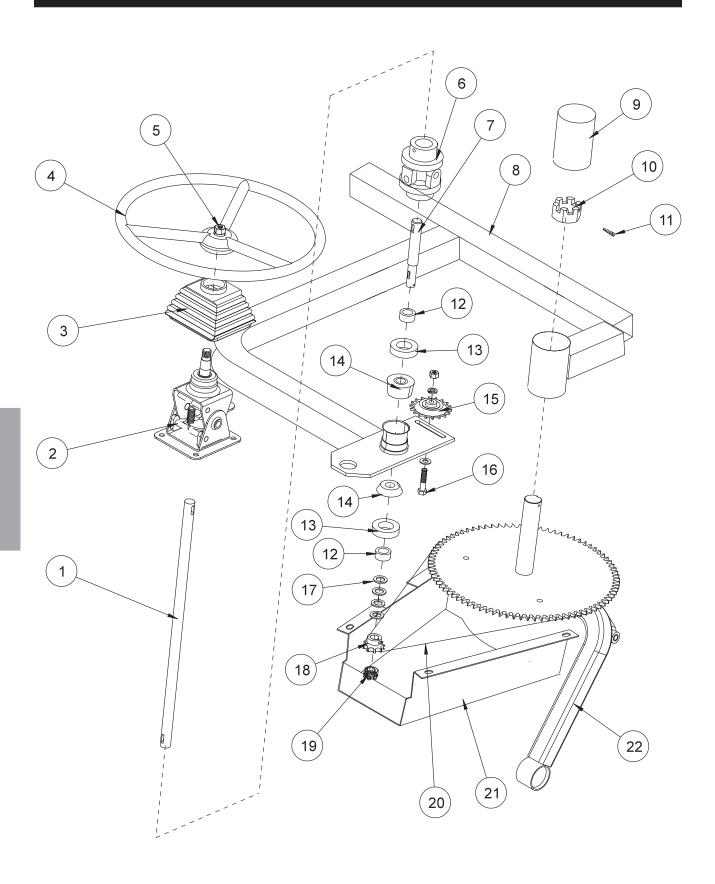




# BODY AND FRAME PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	60-130	Tire and Wheel	1
	60-130-01	Tire 18 x 9.5 x 8	1
	60-130-02	Wheel	1
2	48-158	Front Cover	1
	HB-14-20-075	Bolt 1/4 - 20 x 3/4	4
	HW-14	Washer 1/4	4
	HNFL-14-20	Flange Whiz Lock Nut 1/4 -20	4
3	48-173	Main Frame	1
4	48-161	Left Step	1
5	48-159	Battery Box Cover	2
	8803-10	Black Trim 10" (along side closest to machine)	2
6	76-264	Nose Cone	1
	76-354	2 <sup>1</sup> / <sub>2</sub> # ABC Dry Chemical Fire Extinguisher	1
7	76-362	Mini Tilt Steering Mechanism	1
	76-364	Tilt Steering Boot (comes with 76-362)	1
8	76-302	Steering Wheel with Cap	1
	76-303	Cap Nut 5/8 - 18	1
9	48-118	Valve Console Spacer	1
10	76-214	Side Panel	1
11	48-110	Console	1
12	60-106	Park Brake	1
13	48-090	Right Tower	1
14	48-094	Tower Support	1
15	48-095	Tailgate Dump Handle	1
	48-078	Rubber Grip	1
16	48-101	Hopper	1
17	48-102	Hopper Cover	1
18	48-103	Tailgate Cover	1
	48-104	Tailgate	1
19	48-115	Latch	2
20	48-053	Tailgate Hinge	2
21	42-040	Yoke <sup>3</sup> / <sub>4</sub>	2
	HNJ-34-16	Jam Nut 3/4 - 16	2
22	48-099	Left Dump Arm	1
	48-098	Right Dump Arm	1
23	48-096	Tailgate Adjuster	2
24	48-097	Lift Rod	2
25	33-175	Tire and Wheel	2
	33-175-01	Tire 23.5 x 10.5 x 12	2
	33-175-02	Wheel	2
26	48-091	Left Tower	1
27	48-029	Grass Chute	1
28	48-114	Belt Guard	1
29	48-028	Front Baffle	1
30	76-324	Engine Kohler TH-18	1
32	48-180	Engine Cover	1
33	48-026	Seat Support	1
	13-547	Seat	1
	14-269	Low Back Seat with Smithco Logo	1
34	HB-38-16-300	Bolt <sup>3</sup> / <sub>8</sub> -16 x 3	3
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	3
	HNTL-38-16	Lock Nut 3/8 - 16	3
35	HRS-18-050	Rivet <sup>1</sup> / <sub>8</sub> x <sup>1</sup> / <sub>2</sub>	4
	HW-6	Washer #6	4
36	48-165	Magnet Bracket	2
37	48-164	Magnet	2
38	48-162	Right Step	1
	8803-10	Black Trim 10"	1

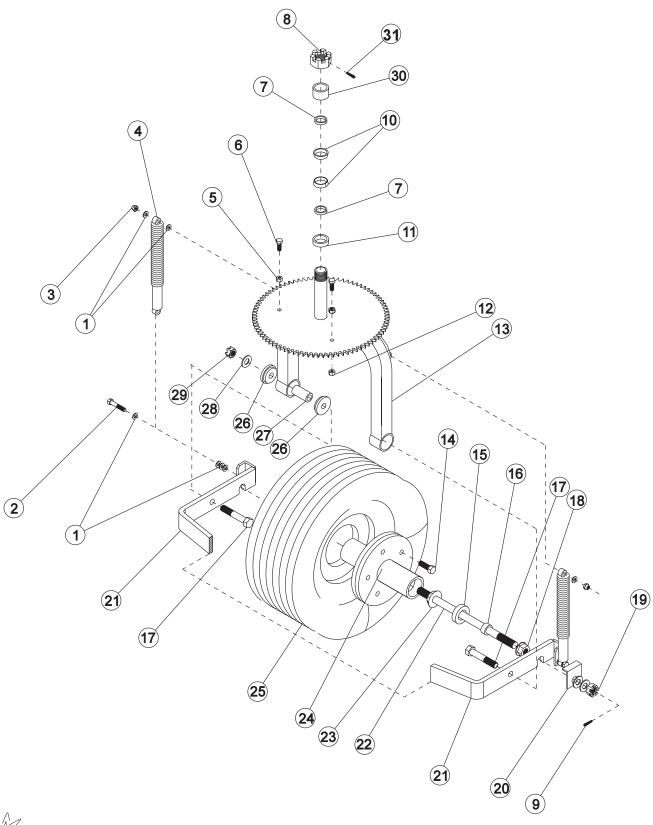






# STEERING PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	48-186	Steering Shaft	1
	HWK-316-075	Woodruff Key <sup>3</sup> / <sub>16</sub> x <sup>3</sup> / <sub>4</sub>	1
2	76-362	Tilt Steering Mechanism	1
3	76-364	Tilt Steering Boot (comes with 76-362)	1
4	76-302	Steering Wheel with Cap	1
5	76-303	Cap Nut <sup>5</sup> / <sub>8</sub> - 18	1
6	75-833	Universal Joint	1
	HSSHS-38-16-038	Socket Head Set Screw 3/8 - 16 x 3/8	4
7	75-813	Bottom Steering Shaft	1
	HWK-316-075	Woodruff Key <sup>3</sup> / <sub>16</sub> x <sup>3</sup> / <sub>4</sub>	1
8		Main Frame	
9	76-301	Rubber Cap	1
10	HNA-114-12	Axle Nut 1 <sup>1</sup> / <sub>4</sub> - 12	1
11	HP-18-150	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>2</sub>	1
12	11-040	Spacer <sup>3</sup> / <sub>4</sub>	2
13	11-039	Seal	2
14	11-038	Bearing Cup and Cone	2
15	76-156	Idler Sprocket	1
16	HB-38-16-175	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>3</sup> / <sub>4</sub>	1
	HW-38	Washer 3/8	1
	HWL-38	Lockwasher 3/8	1
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	1
17	HMB-58-14	Machine Bushing 5/8 - 14	as Req'd
18	76-153	Sprocket	1
	HWK-316-063	Woodruff Key <sup>3</sup> / <sub>16</sub> - <sup>5</sup> / <sub>8</sub>	1
19	HNA-58-18	Axle Nut 5/8 - 18	1
	HP-18-150	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>2</sub>	1
20	8827-59	Roller Chain	1
	18-032	Master Link #40	1
21	75-803	Chain Guard	1
	HST-38-16-100	Truss Machine Screw 3/8 - 16 x 1	4
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HWL-38	Lockwasher 3/8	4
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	4
22	76-155	Front Fork	1

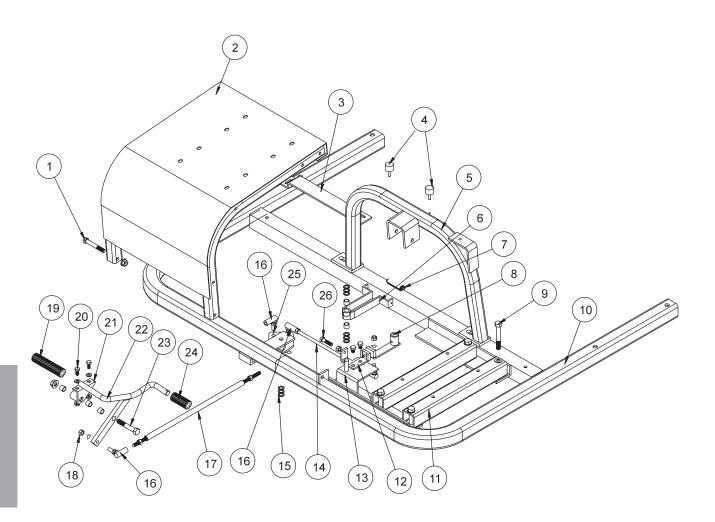




# FRONT FORK PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	HW-516	Washer 5/16 (as Req'd)	14
2	HB-38-16-200	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2	2
	HNTL-38-16	Locknut <sup>3</sup> / <sub>8</sub> - 16	2
3	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	2
	HNTL-38-16	Locknut <sup>3</sup> / <sub>8</sub> - 16	2
4	75-715	Shock Absorber	2
	75-715-01	Bushing with Insert	2 per shock
5	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	2
6	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1	2
7	20-142	Grease Seal 11/4	2
8	HNA-114-12	Axle Nut 11/4 - 12	1
9	HP-18-150	Cotter Pin 1/8 x 11/2	2
10	20-143	Bearing Cup and Cone 11/4ID	2
11	20-141	Spacer 15/8 OD x 11/4 ID x 7/16	1
12	HNCL-38-16	Lock Nut 3/8 - 16	2
13	76-155	Front Fork	1
14	27-022-02	Bolt Stud <sup>1</sup> / <sub>2</sub> - 20 x 1 <sup>1</sup> / <sub>2</sub>	5
	HNL-12-20	Lug Nut 1/2 - 20	5
15	11-039	Grease Seal 11/8 ID	2
16	11-040	Spacer 1 <sup>1</sup> / <sub>8</sub> OD x <sup>3</sup> / <sub>4</sub> ID x <sup>17</sup> / <sub>32</sub>	2
17	HB-58-18-350	Bolt <sup>5</sup> / <sub>8</sub> - 18 x 3 <sup>1</sup> / <sub>2</sub>	2
18	HNJ-34-16	Jam Nut 3/4 - 16	2
19	HNA-34-16	Axle Nut 3/4 - 16	2
20	60-511	Axle Lock	2
21	60-510	U-Bracket	1
22	60-407	Front Axle	1
23	11-038	Bearing Cup and Cone 3/4 ID	2
24	11-010	Wheel Hub	1
25	60-130	Wheel and Tire	1
	60-130-01	Tire 18 x 9.5 - 8 6 Ply	1
	60-130-02	Wheel	1
	8839	Windshield Washer Fluid	28 pints
26	60-128	Rubber Bushing	4
27	60-406	Spacer 1 OD x 5/8 ID x 2	2
28	HW-58	Washer <sup>5</sup> / <sub>8</sub>	2
29	HNTL-58-18	Lock Nut 5/8 - 18	2
30	75-676	Spacer Seal	1
31	HP-18-200	Cotter Pin 1/8 x 2	1

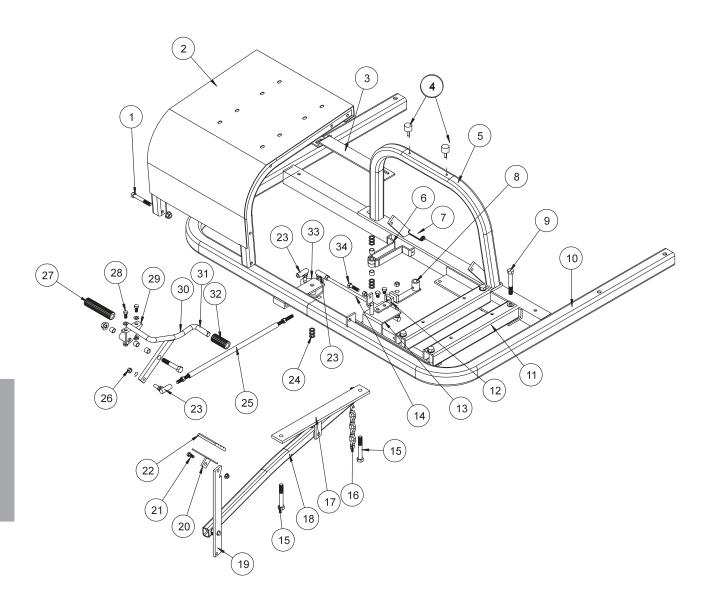




# LINKAGE PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
1	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
2	48-026	Seat Panel	1
3	48-163	Filter Bracket	1
	HB-516-18-300	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 3	1
	HW-516	Washer <sup>5</sup> / <sub>16</sub>	1
	HNTL-516-18	Lock Nut <sup>5</sup> / <sub>16</sub> - 18	1
4	15-013	Rubber Bumper	2
5	48-056	Seat Support	1
6	34-038	Centering Arm	2
	HMB-12-14	Machine Bushing 1/2 x 14GA	6
	18-234	Bushing	2
7	48-109	Spring	1
8	48-035	Shift Arm	1
	HRP-14-150	Roll Pin 1/4 x 11/2	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub>	1
	8946-1	Plastic Wear Strip	1
9	HB-38-16-350	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3 <sup>1</sup> / <sub>2</sub>	4
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HNTL- 38 -16	Lock Nut 3/8 - 16	4
10		Main Frame	
11	48-033	Engine Mount	2
12	13-624	Stop w/ Plastic Wear Strip	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> (part of 13-624)	1
	8946-1	Plastic Wear Strip (part of 13-624)	1
	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1	2
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2
13	48-034	Centering Arm Mount Bracket	1
	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
14	48-032	Foot Pedal Rod	1
	HN-38-24	Nut 3/8 - 24	2
15	HMB-12-14	Machine Bushing 1/2 - 14GA	3
16	21-173	Ball Joints	4
17	76-282	Foot Pedal Rod	1
	HN-38-24	Nut 3/8 - 24	2
18	HN-38-24	Nut 3/8 - 24	4
	HWL-38	Lock Washer <sup>3</sup> / <sub>8</sub>	4
19	76-299	Pedal Pad	1
20	HB-516-18-075	Bolt <sup>5</sup> / <sub>16</sub> - 18 x <sup>3</sup> / <sub>4</sub>	2
	HW-516	Washer <sup>5</sup> / <sub>16</sub>	2
	HNTL-516-18	Lock Nut <sup>5</sup> / <sub>16</sub> - 18	2
21	76-296	Pedal Mount	1
	18-234	Bushing	2
	HG-14-28-180	Grease Fitting 1/4 - 28 x 180°	1
22	48-059	Foot Pedal	1
	18-234	Bushing	1
23	HB-12-13-300	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3	1
	HNTL-12-13	Lock Nut 1/2 - 13	1
24	76-332	Pedal Pad	1
25	75-791	Shift Relay	1
	10-007	Bushing	1
	HP-18-100	Cotter pin 1/8 x 1	1
26	HSSQ-38-16-150	Square Head Set Screw <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>2</sub>	1
	HN-38-16	Nut 3/8 - 16	1
	1.1.4.00 10	1101 /0 10	1



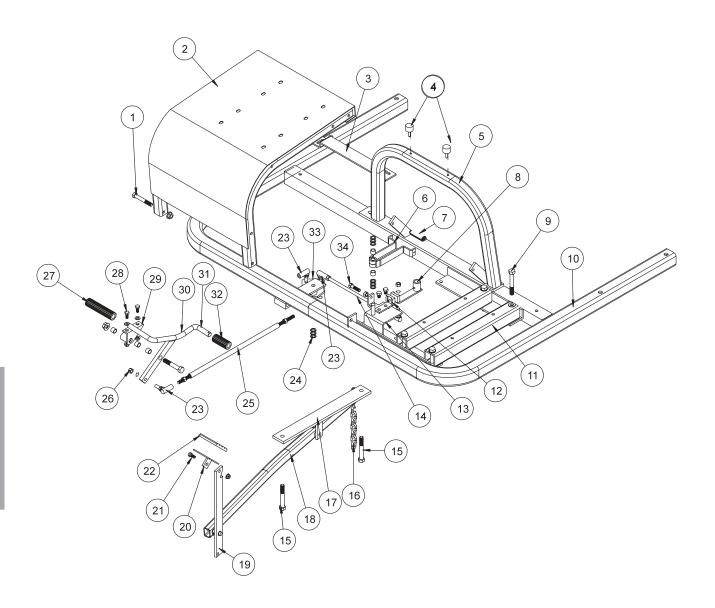


# LINKAGE PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 14 x 2 <sup>1</sup> / <sub>2</sub>	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
2	48-026	Seat Panel	1
3	48-163	Filter Bracket	1
	HB-516-18-300	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 3	1
	HW-516	Washer 5/16	1
	HNTL-516-18	Lock Nut 5/16 - 18	1
4	15-013	Rubber Bumper	2
5	48-088	Seat Support	1
6	34-038	Centering Arm	2
	HMB-12-14	Machine Bushing 1/2 x 14GA	6
	18-234	Bushing	2
7	48-109	Spring	1
8	48-035	Shift Arm	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub>	1
	8946-1	Plastic Wear Strip	1
	HRP-14-150	Roll Pin <sup>1</sup> / <sub>4</sub> x 1 <sup>1</sup> / <sub>2</sub>	1
9	HB-38-16-350	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3 <sup>1</sup> / <sub>2</sub>	4
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	4
10		Main Frame	
11	48-033	Engine Mount	2
12	13-624	Stop w/ Plastic Wear Strip	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub> (part of 13-624)	1
	8946-1	Plastic Wear Strip (part of 13-624)	1
	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
13	48-034	Centering Arm Mount Bracket	1
	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
14	48-032	Foot Pedal Rod	1
	HN-38-24	Nut 3/8 - 24	2
15	HB-38-16-175	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>3</sup> / <sub>4</sub>	2
	HNTL-38-16	Lock Nut 3/8 - 16	2
16	8820-6	Chain (8820 st. link x 6)	1
	20-008	Eye Bolt	1
	HN-516-18	Nut <sup>5</sup> / <sub>16</sub> - 18	2
	HW-516	Washer 5/16	1
17	48-092	Pivot	1
	HB-12-13-300	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3	1
	HNTL-12-13	Lock Nut 1/2 - 13	1
18	48-087	Lift Arm	1
	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
19	48-093	Pedal Lever	1
20	16-062	Pedal	1
21	HB-38-16-125	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>4</sub>	1
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	1

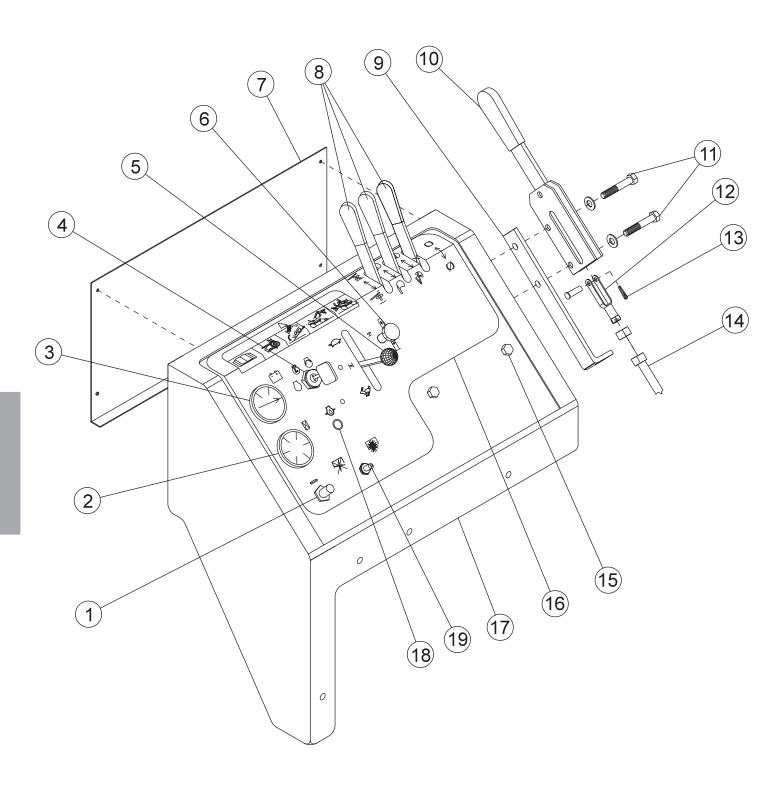
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# LINKAGE PARTS LIST (GROUND DUMP) CONTINUED

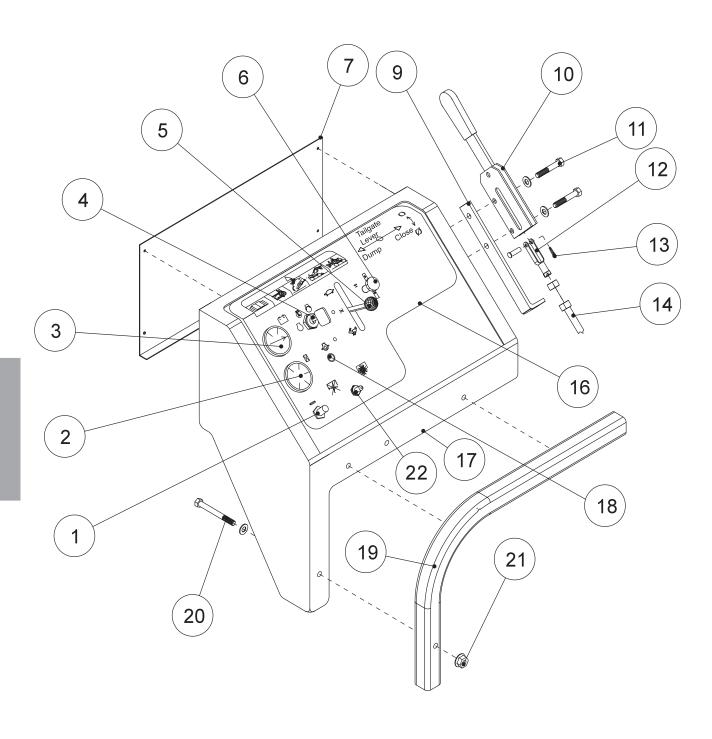
REF#	PART#	DESCRIPTION	QUANTITY
22	15-015	Pedal Pad	1
23	21-173	Ball Joint	4
24	HMB-12-14	Machine Bushing 1/2 - 14GA	3
25	76-282	Foot Pedal Rod	1
	HN-38-24	Nut <sup>3</sup> / <sub>8</sub> - 24	2
26	HN-38-24	Nut <sup>3</sup> / <sub>8</sub> - 24	4
	HWL-38	Lock Washer 3/8	4
27	76-299	Pedal Pad	1
28	HB-516-18-075	Bolt <sup>5</sup> / <sub>16</sub> - 18 x <sup>3</sup> / <sub>4</sub>	2
	HW-516	Washer 5/16	2
	HNTL-516-18	Lock Nut <sup>5</sup> / <sub>16</sub> - 18	2
29	76-296	Pedal Mount	1
	18-234	Bushing	2
	HG-14-28-180	Grease Fitting 1/4 - 28 x 180°	1
30	48-059	Foot Pedal	1
	18-234	Bushing	1
31	HB-12-13-300	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3	1
	HNTL-12-13	Lock Nut 1/2 - 13	1
32	76-332	Pedal Pad (short)	1
33	75-791	Shift Relay	1
	10-007	Bushing	1
	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
34	HSSQ-38-16-150	Set Screw <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>2</sub>	1
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	1





# CONSOLE PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
1	34-146	Panel Mount Circuit Breaker	1
	34-145	Circuit Breaker Boot	1
2	12-017	Hour Meter	1
3	22-003	Ammeter	1
4	13-288	Key Switch (with hardware Kohler# 25 099 04)	1
	76-310	Key Set	1
5	34-160	Throttle 48"	1
	34-159	Throttle Mounting Bracket	1
	HSM-10-32-063	Machine Screw 10 - 32 x 5/8	4
	HSM-10-32-100	Machine Screw 10 - 32 x 1	2
	HWL-10	Lockwasher 10	6
	HN-10-32	Nut 10 - 32	6
6	80-020	Choke Cable	1
7	76-214	Side Panel	1
	HSA-8-075	Tapping Screw #8 x 3/4	4
8	76-309	Valve Handle (with Linkage Kit)	1
	76-023	Hydraulic Valve (3 bank)	1
9	76-224	Park Brake Handle Mount	1
10	60-106	Brake Lever	1
11	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	6
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	2
12	11-100	Linkage Yoke 5/16	1
13	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
	HCP-516-125	Clevis Pin 5/16 x 11/4	1
14	60-347	Brake Cable (with nuts)	1
	60-536	Bellows (one each end of brake cable)	2
15	HB-38-16-100	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 (holds 76-023 Valve)	2
	HWL-38	Lockwasher 3/8	2
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	2
16	76-199	Decal, Control Panel	1
17	76-265	Console	1
18	50-359	Warning Indicator Light	1
19	15-314	Electric Clutch Switch	1
	15-472	Switch Boot	1

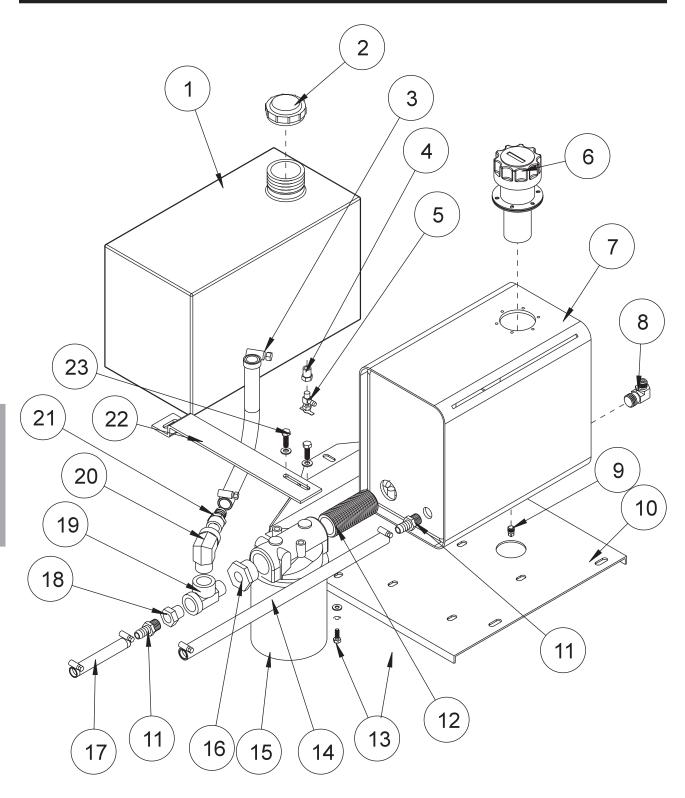




# CONSOLE PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	34-146	Panel Mount Circuit Breaker	1
	34-145	Circuit Breaker Boot	1
2	12-017	Hour Meter	1
3	22-003	Ammeter	1
4	13-288	Key Switch (with hardware)	1
	76-310	Key Set	1
5	34-160	Throttle 48"	1
	34-159	Throttle Mounting Bracket	1
	HSM-10-32-063	Machine Screw 10 - 32 x 5/8	4
	HSM-10-32-100	Machine Screw 10 - 32 x 1	2
	HWL-10	Lockwasher 10	6
	HN-10-32	Nut 10 - 32	6
6	80-020	Choke Cable	1
7	76-214	Side Panel	1
	HSA-8-075	Tapping Screw #8 x 3/4	4
9	76-224	Park Brake Handle Mount	1
10	60-106	Brake Lever	1
11	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	6
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	2
12	11-100	Linkage Yoke 5/16	1
13	HP-18-100	Cotter Pin <sup>1</sup> / <sub>8</sub> x 1	1
	HCP- 516-125	Clevis Pin 5/16 x 11/4	1
14	60-347	Brake Cable (with nuts)	1
	60-536	Bellows (one each end of brake cable)	2
16	48-107	Decal, Control Panel	1
	77-227	Decal, Reel Switch	1
17	48-110	Console	1
18	50-359	Warning Indicator Light	1
19	48-118	Console Spacer	1
20	HB-38-16-400	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 4	3
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	3
21	HNTL-38-16	Lock Nut 3/8 - 16	3
22	15-314	Electric Clutch Switch	1
	15-472	Switch Boot	1

# FUEL AND OIL TANK DRAWING (HIGH LIFT)



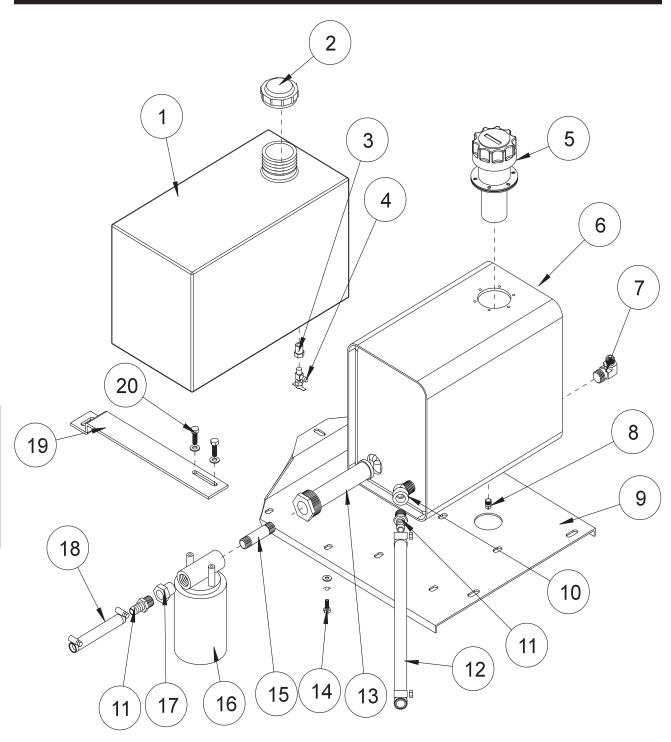


# FUEL AND OIL TANK PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
1	15-491	Gas Tank	1
2	15-492	Cap with Gauge	1
3	8832-19	<sup>3</sup> / <sub>4</sub> " Hose	1
	18-040	Clamp	2
4	18-042	Reducer Bushing	1
5	15-039	Fuel Valve	1
6	13-586	Filler Breather	1
	HSM-8-32-050	Machine Screw #8 - 32 x 1/2	8
	HWS-8	Star Washer #8	8
7	48-135	Oil Tank	1
8	17-019	Male Elbow	1
9	18-118	Pipe Plug <sup>1</sup> / <sub>8</sub>	1
10	76-221	Tank mount	1
11	23-139	Barb Fitting	2
12	18-236	Black Nipple	1
13	HB-14-20-075	Bolt <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	8
	HW-14	Washer 1/4	8
	HWL-14	Lock Washer 1/4	8
14	8810-19	5/8" Hose	1
	18-077	Clamp	2
15	48-083	Oil Filter	1
	48-083-01	Filter Replacement	1
16	18-260	Reducer Bushing	1
17	8810-7	5/8" Hose	1
	18-077	Clamp	2
18	18-008	Pipe Thread Reducer	1
19	18-093	Street Tee	1
20	18-140	Elbow	1
21	18-249	Barb Fitting	1
22	48-163	Filter Bracket	1
23	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1	2
	HW-516	Washer 5/16	2
	HWL-516	Lock Washer 5/16	2
NOT ILL	USTRATED		
	8800-52	Fuel Hose (replacement parts)	1
	18-003	Hose Clamp (replacement parts)	2
	8983-60	Fire Sleeve	1
	18-222	Hose Clamp	2
	50-403	In-line Fuel Filter (replacement parts)	1



# FUEL AND OIL TANK DRAWING (GROUND DUMP)

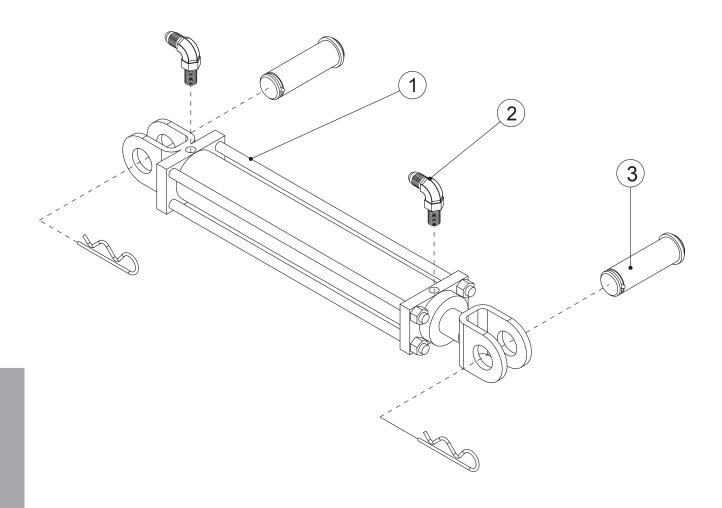


# FUEL AND OIL TANK PARTS LIST (GROUND DUMP)

`REF#	PART#	DESCRIPTION	QUANTITY
1	15-491	Gas Tank	1
2	15-492	Cap with Gauge	1
3	18-042	Reducer Bushing	1
4	15-039	Fuel Valve	1
5	13-586	Filler Breather	1
	13-586-01	Cap Gasket	1
	13-586-02	Bottom Gasket	2
	HMS-8-32-050	Machine Screw #8 - 32 x <sup>1</sup> / <sub>2</sub>	6
	HWS-8	Star Washer #8	6
6	48-135	Oil Tank	1
7	17-019	Male Elbow	1
8	18-118	Pipe Plug <sup>1</sup> / <sub>8</sub>	1
9	76-221	Tank mount	1
10	18-072	Street Elbow	1
11	23-139	Barb Fitting	2
12	8810-19	Hose <sup>5</sup> / <sub>8</sub> x 19	1
	18-077	Clamp	2
13	60-213	Strainer	1
14	HB-14-20-075	Bolt <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	4
	HW-14	Washer 1/4	4
	HWL-14	Lock Washer 1/4	4
15	18-145	Black Pipe Nipple 3/4 x 3	1
16	23-006	Oil Filter	1
	23-031	Replacement Filter	1
17	18-008	Pipe Thread Reducer 3/4 x 1/2	1
18	8917-17	Suction Hose <sup>5</sup> / <sub>8</sub> x 17	1
	18-077	Clamp	2
19	48-163	Filter Bracket	1
20	HB-14-20-075	Bolt <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	2
	HW-14	Washer 1/4	2
	HWL-14	Lock Washer 1/4	2
NOT ILI	LUSTRATED		
	8800-52	Fuel Hose	1
	18-186	Hose Clamp	2
	8983-57	Fire Sleeve	1
	18-222	Hose Clamp	2
	50-403	In-line Fuel Filter	1



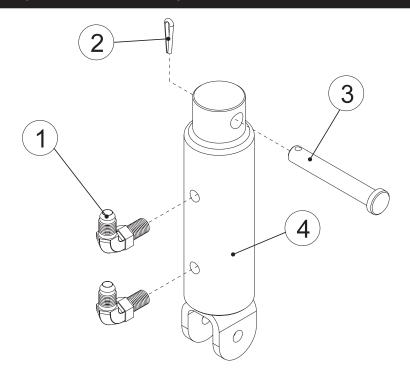
# HYDRAULIC LIFT CYLINDER DRAWING



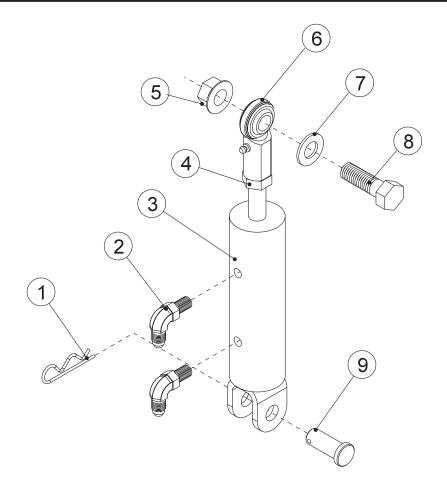
# HYDRAULIC LIFT CYLINDER PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	76-242	Hydraulic Cylinder	1
	76-242-01	Seal Kit	1
2	18-168	Elbow	2
3	76-242-02	Clevis pin with Clip	2

# REEL LIFT CYLINDER DRAWING



#### TAILGATE CYLINDER DRAWING





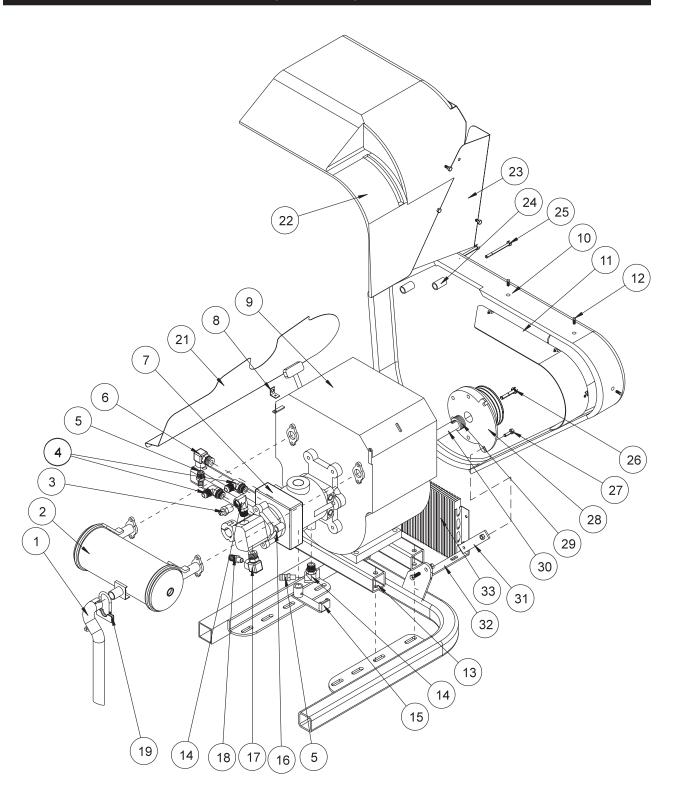
# REEL LIFT CYLINDER PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	18-168	Elbow	2
2	HP-18-100	Cotter Pin 1/8 x 1	1
3	HCP-12-350	Clevis Pin 1/2 x 3 1/2	1
4	75-634	Hydraulic Cylinder	1
	14-268	Seal Kit	1

#### TAILGATE CYLINDER PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	1
2	18-168	Elbow	2
3	75-714	Hydraulic Cylinder	1
	14-268	Seal Kit	1
4	HNJ-58-18	Jam Nut <sup>5</sup> / <sub>8</sub> - 18	1
5	HNCL-58-11	Center Lock Nut 5/8 - 11	1
6	18-154	Rod End	1
	HG-14-28-180	Grease Fitting 1/4 - 28 x 180°	1
7	HMB-58-14	Machine Bushing 5/8 - 14GA	3
8	HB-58-11-200	Bolt <sup>5</sup> / <sub>8</sub> - 11 x 2	1
9	HCP-58-175	Clevis Pin 5/8 x 13/4	1

### ENGINE AND EXHAUST DRAWING (HIGH LIFT)





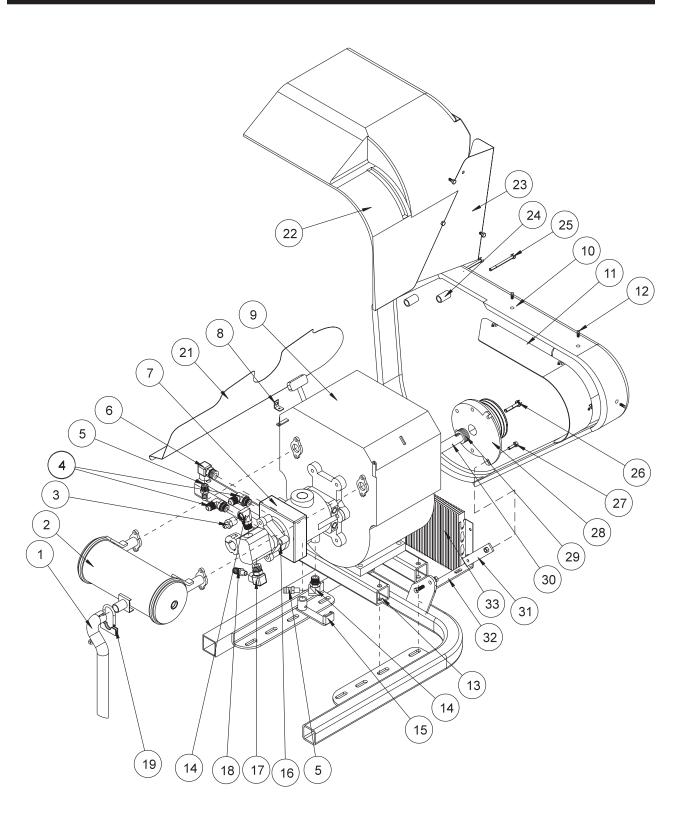
# ENGINE AND EXHAUST PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	YTITNAUÇ
1	48-128	Tail Pipe	1
2	48-106	Muffler	1
3	23-184	Male Connector	1
4	18-161	Straight Thread Elbow	2
5	23-139	Barb Fitting	2
6	23-133	Elbow	1
7	76-322	Hydrostatic Pump	1
	HSSHS-12-13-175	Socket Set Screw 1/2 - 13 x 13/4	2
	HWL-12	Lock Washer 1/2	2
8	34-163	Cable Bracket	1
	HB-14-20-075	Bolt <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	1
	HNTL-14-20	Lock Nut 1/4 - 20	1
9	76-324	Engine Kohler T-18	1
	76-324-03	Crankshaft Splined Insert (Kohler # 48 755 23 part of eng	ine) 1
	42-113	Solenoid (Kohler # 25 435 02 part of engine)	1
	HB-516-18-350	Bolt 5/16 - 18 x 3 <sup>1</sup> / <sub>2</sub>	4
	HW-516	Washer 5/16	4
	HNTL-516-18	Lock Nut 5/16 - 18	4
10	48-112	Belt Guard	1
11	48-168	Guard Extension	1
	78-274	Cage Nuts	3
12	HSTP-14-20-075	Phillips Truss Head Machine Screw <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	3
13	48-033	Engine Mount	2
14	23-127	Elbow	2
15	48-035	Shift Arm	_ 1
	8946-1	Plastic Wear Strip	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x 1 <sup>1</sup> / <sub>2</sub>	1
	HRP-14-100	Roll Pin <sup>1</sup> / <sub>4</sub> x 1	1
16	76-323	Gear Pump (replacement only; no repair)	1
17	23-130	Elbow	1
18	18-133	Barb Fitting	1
19	13-498	Muffler Clamp	1
21	48-142	Rear Engine Guard	1
	HSTP-14-20-100	Phillips Truss Head Machine Screw 1/4 - 20 x 1	3
	HW-14	Washer <sup>1</sup> / <sub>4</sub>	3
	HWL-14	Lock Washer <sup>1</sup> / <sub>4</sub>	3
	HN-14-20	Nut 1/4 - 20	3
22	48-180	Engine Cover	1
23	48-143	Front Engine Guard	1
-	HSTP-14-20-100	Phillips Truss Head Machine Screw 1/4 - 20 x 1	3
	HW-14	Washer 1/4	3
	HWL-14	Lock Washer 1/4	3
	HN-14-20	Nut 1/4 - 20	3
24	48-171	Spacer	2
25	HB-516-18-350	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 3 <sup>1</sup> / <sub>2</sub>	2
-	HW-516	Washer 5/16	2
	HWL-516	Lockwasher 5/16	2
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### ENGINE AND EXHAUST DRAWING (HIGH LIFT)

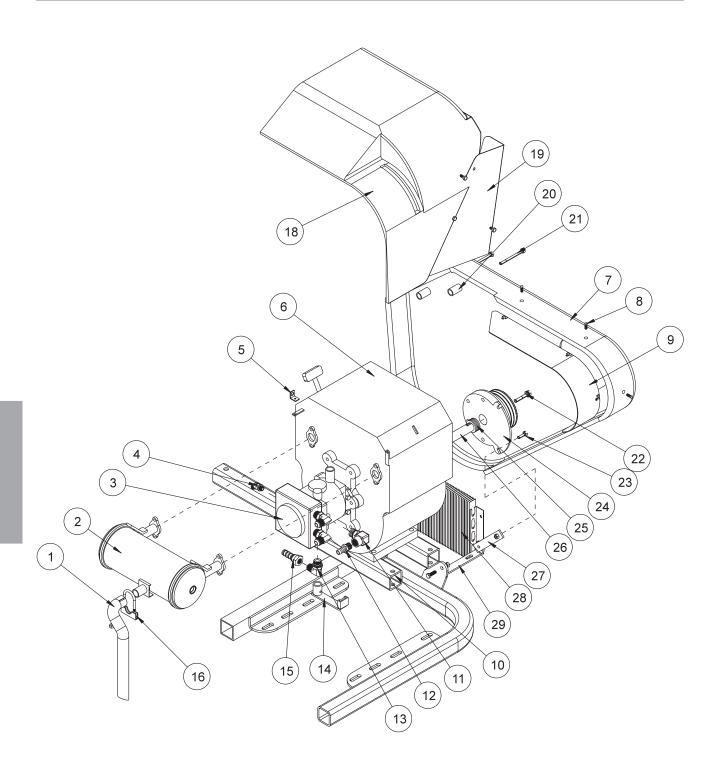




# ENGINE AND EXHAUST PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
26	HB-38-16-200	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2	1
	HWL-38	Lockwasher 3/8	1
27	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1	1
	HNTL-516-18	Lcok Nut 5/16 - 18	2
28	78-337	Electric Clutch	1
29	HMB-100-10	Machine Bushing 1 x 10GA	3
30	48-172	Fron t Drive Shaft	1
	HKSQ-14-150	Machine Key 1/4 x 1/4 x 11/2	1
31	76-340	Clutch Strap	1
32	48-169	Front Cooler Bracket	1
	HB-516-18-100	Botl <sup>5</sup> / <sub>16</sub> -18 x 1	1
	HNTL-516-18	Lock Nut 5/16 - 18	1
33	34-105	Oil Cooler	1
	48-170	Rear Cooler Bracket	1
	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	1
	HNFL-38-16	Flange Whiz Lock Nut 3/8 - 16	1

# ENGINE AND EXHAUST DRAWING (GROUND DUMP)



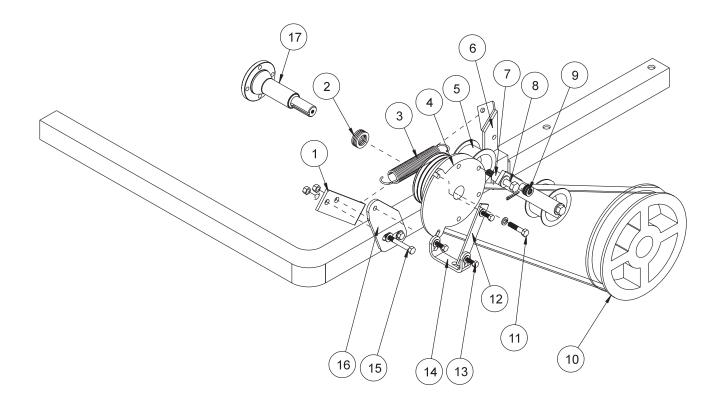


# ENGINE AND EXHAUST PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	48-128	Tail Pipe	1
2	48-106	Muffler	1
3	42-003	Hydrostatic Pump	1
3	HSSHS-12-13-100	Socket Set Screw 1/2 - 13 x 13/4	2
	HWL-12	Lock Washer 1/2	2
4	18-188	Elbow 45°	1
5	34-163	Cable Bracket	1
6	76-324	Engine Kohler T-18	1
O	76-324-03	Crankshaft Splined Insert (part of engine)	1
	42-113		1
	HB-516-18-350	Solenoid (Kohler# 25 435 02 part of engine) Bolt <sup>5</sup> / <sub>16</sub> - 18 x 3 <sup>1</sup> / <sub>2</sub>	4
		Lock Nut 5/16 - 18	
7	HNTL-516-18		4
7	48-114	Belt Guard  Bhilling Trues Hood Machine Serow 1/ 20 x 3/	1
8	HSTP-14-0-075	Phillips Truss Head Machine Screw <sup>1</sup> / <sub>4</sub> - 20 x <sup>3</sup> / <sub>4</sub>	3
9	48-168	Guard Extension	1
4.0	78-274	Cage Nuts	3
10	48-033	Engine Mount	2
11	23-130	Elbow	1
12	23-139	Barb Fitting	1
13	18-161	Street Elbow	3
14	48-035	Shift Arm	1
	HRP-14-100	Roll Pin <sup>1</sup> / <sub>4</sub> x 1	1
	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x 1 <sup>1</sup> / <sub>2</sub>	1
	8946-1	Plastic Wear Strip	1
15	18-239	Swivel Fitting	1
16	13-498	Muffler Clamp	1
18	48-180	Engine Cover	1
19	48-143	Front Engine Guard	1
	HSTP-14-20-100	Phillips Truss Head Machine Screw 1/4 - 20 x 1	3
	HW-14	Washer 1/4	3
	HWL-14	Lock Washer 1/4	3
	HN-14-20	Nut <sup>1</sup> / <sub>4</sub> - 20	3
20	48-171	Spacer	2
21	HB-516-18-350	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 3 <sup>1</sup> / <sub>2</sub>	2
	HW-516	Washer <sup>5</sup> / <sub>16</sub>	2
	HWL-516	Lockwasher 5/16	2
22	HB-38-16-200	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2	1
	HWL-38	Lockwasher <sup>3</sup> / <sub>8</sub>	1
23	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1	1
	HNTL-516-18	Lcok Nut <sup>5</sup> / <sub>16</sub> - 18	2
24	78-337	Electric Clutch	1
25	HMB-100-10	Machine Bushing 1 x 10GA	3
26	48-172	Front Drive Shaft	1
	HKSQ-14-150	Machine Key 1/4 x 1/4 x 11/2	1
27	76-340	Clutch Strap	1
28	34-105	Oil Cooler	1
	48-170	Rear Cooler Bracket	1
	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	1
	HNFL-38-16	Flange Whiz Lock Nut 3/8 - 16	1
29	48-169	Front Cooler Bracket	1
	HB-516-18-100	Botl <sup>5</sup> / <sub>16</sub> -18 x 1	1
	HNTL-516-18	Lock Nut <sup>5</sup> / <sub>16</sub> - 18	1

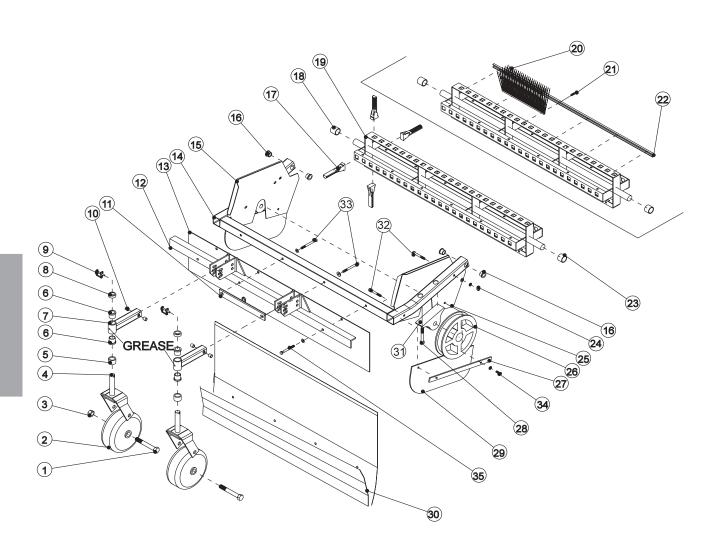


# ELECTRIC CLUTCH DRIVEN BELT DRIVE DRAWING



# ELECTRIC CLUTCH DRIVEN BELT DRIVE PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	48-038	Spring Bracket	1
2	HMB-100-10	Machine Bushing 1 x 10GA	4
3	21-445	Spring	1
4	78-337	Electric Clutch	1
5	16-013	Idler Pulley	2
6	76-217	Idler Arm	1
7	76-298	Spacer	2
8	HB-12-13-300	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3	2 2
	HW-12	Washer 1/2	2
	HNTL-12-13	Lock Nut 1/2 - 13	2
9	HMB-12-14	Machine Bushing 1/2 x 14GA	5
	HP-18-150	Cotter Pin 1/8 x 11/2	1
10	76-102	Pulley	1
	76-102-01	Hub 1 <sup>1</sup> / <sub>4</sub> ID	1
	HKSQ-14-150	Machine Key 1/4 x 1/4 x 11/2	1
	76-200	Belt	1
11	HB-38-16-200	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2	1
	HWL-38	Lock Washer <sup>3</sup> / <sub>8</sub>	1
12	76-340	Clutch Strap	1
13	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1	3
	HW-516	Washer <sup>5</sup> / <sub>16</sub>	3
	HNTL-516-18	Lock Nut 5/16 - 18	3
14	48-169	Front Cooler Bracket	1
15	HB-38-16-300	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	2
	HWL-38	Lock Washer <sup>3</sup> / <sub>8</sub>	2
	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	2
16	76-338	Clutch Mount	1
17	42-172	Front Drive Shaft	1



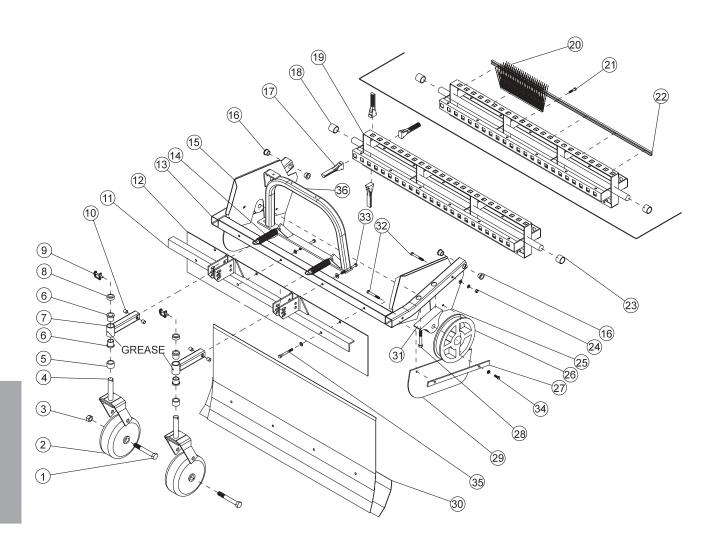


# FINGER REEL PARTS LIST (HIGH LIFT)

DEE#	DADT#	DESCRIPTION	OLIANITITY
REF#	PART#	DESCRIPTION	QUANTITY
1 2	HB-34-10-550	Bolt <sup>3</sup> / <sub>4</sub> - 10 x 5 <sup>1</sup> / <sub>2</sub>	2 2
3	33-435 HNTL-34-10	Tire and Wheel Nut <sup>3</sup> / <sub>4</sub> - 10	2
3 4	48-046	Castor Fork	2
	46-046 29-585		2
5 6	18-223	Spacer Height Adjustment 1"	4
7	77-171	Bushing (part of 77-171) Arm	2
,	HG-14-28-180	Grease Fitting <sup>1</sup> / <sub>4</sub> - 28 x 180°	1
8	29-584	Spacer Adjustment 1/2"	2
9	29-541	Lock Pin	2
10	20-019	Bushing (part of 77-171)	4
11	48-048	Beater Chain Bracket	1
	HCP-12-250	Clevis Pin 1/2 - 21/2	4
	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	4
12	48-045	Castor Frame	1
12	HCP-12-225	Clevis Pin 1/2 - 21/4	4
	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	4
13	76-320	Mud Guard	1
14	48-030	Beater Frame	1
15	75-799	Right Side Plate	1
16	18-221	Flange Bushing (part of 48-030))	4
17	75-506	Sweeper Finger	96
18	75-834	Spacer (right)	1
19	48-010	Finger Reel	1
20	48-086	Brush	4
21	HB-516-18-125	Bolt <sup>5</sup> / <sub>16</sub> -18 x 1 <sup>1</sup> / <sub>4</sub>	24
	HNTL-516-18	Lock Nut 5/16-18	24
22	48-105	Clamp	4
23	75-686	Spacer (left)	1
24	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	4
	HWL-38	Lock Washer 3/8	4
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	8
25	75-800	Left Side Plate	1
26	76-102	Pulley with Hub	1
	76-102-01	Hub 1 <sup>1</sup> / <sub>4</sub> ID	1
27	76-213	Reel Guard Strap	2
28	HB-12-13-350	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3 <sup>1</sup> / <sub>2</sub>	4
	HW-716	Washer <sup>7</sup> / <sub>16</sub>	4
	HNTL -12-13	Lock Nut 1/2 - 13	4
29	76-210	Matting	2
30	48-028	Front Baffle	1
31	75-511	Pillow Block	2
32	HB-38-16-300	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3	4
33	HB-38-16-400	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 4	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2
34	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1	4
	HW-516	Washer 5/16	4
	HWL-516	Lock Washer 5/16	4
05	HN-516-18	Nut <sup>5</sup> / <sub>16</sub> - 18	4
35	HB-38-16-350	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3 <sup>1</sup> / <sub>2</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2



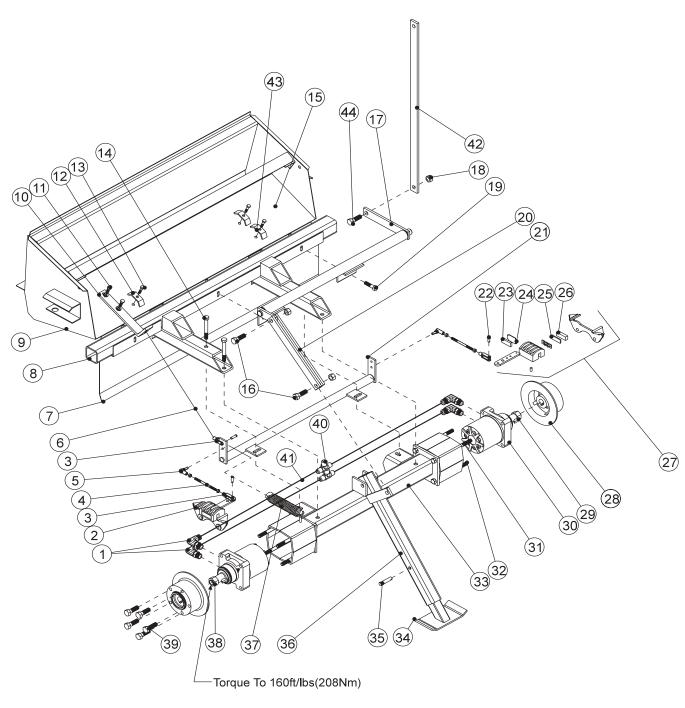
### FINGER REEL DRAWING (GROUND DUMP)



# FINGER REEL PARTS LIST (GROUND DUMP)

DEE#	DADT#	DESCRIPTION	OLIANTITY
REF#	PART#	DESCRIPTION	QUANTITY
1	HB-34-10-550	Bolt <sup>3</sup> / <sub>4</sub> - 10 x 5 <sup>1</sup> / <sub>2</sub>	2 2
2	33-435	Tire and Wheel Nut 3/4 - 10	2
3	HNTL-34-10		2
4	48-046	Castor Fork	2
5 6	29-585 18-223	Spacer Height Adjustment 1"	4
7	77-171	Bushing	2
1	HG-14-28-180	Arm	1
0	29-584	Grease Fitting 1/4 - 28 x 180°	2
8		Spacer Adjustment 1/2- Lock Pin	2
9	29-541		4
10	20-019	Bushing Costor Frame	
11	48-045	Castor Frame Clevis Pin 1/2 - 21/2	1 4
	HCP-12-250		
10	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	4
12	76-320	Mud Guard	1
13	48-030	Beater Frame	1
14	21-445	Spring	2
15	75-799	Right Side Plate	1
16	18-221	Flange Bushing	4
17	75-506 75-004	Sweeper Finger	96
18	75-834	Spacer (right)	1
19	48-010	Finger Reel	1
20	48-086	Brush	4
21	HB-516-18-125	Bolt <sup>5</sup> / <sub>16</sub> -18 x 1 <sup>1</sup> / <sub>4</sub>	24
00	HNTL-516-18	Lock Nut <sup>5</sup> / <sub>16</sub> -18	24
22	48-105	Clamp	4
23	75-686	Spacer (left)	1
24	HN-38-16	Nut <sup>3</sup> / <sub>8</sub> - 16	4
	HWL-38	Lock Washer <sup>3</sup> / <sub>8</sub>	4
05	HW-38	Washer <sup>3</sup> / <sub>8</sub>	8
25	75-800 76-400	Left Side Plate	1
26	76-102 76-402-04	Pulley with Hub	1
07	76-102-01	Hub 1 <sup>1</sup> / <sub>4</sub> ID	1
27	76-213	Reel Guard Strap	2
28	HB-12-13-350	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3 <sup>1</sup> / <sub>2</sub>	4
	HW-716	Washer <sup>7</sup> / <sub>16</sub>	4
00	HNTL -12-13	Lock Nut <sup>1</sup> / <sub>2</sub> - 13	4 2
29	76-210	Matting	1
30	48-028	Front Baffle	2
31	75-511	Pillow Block Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3	
32	HB-38-16-300	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 4	4
33	HB-38-16-400		2 4
	HW-38	Washer <sup>3</sup> / <sub>8</sub> Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2
24	HNTL-38-16		4
34	HB-516-18-100	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1 Washer <sup>5</sup> / <sub>16</sub>	4
	HW-516		4
	HWL-516	Lock Washer 5/16	
25	HN-516-18	Nut <sup>5</sup> / <sub>16</sub> - 18	4
35	HB-38-16-350	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3 <sup>1</sup> / <sub>2</sub>	2 4
	HW-38	Washer 3/8	2
26	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	1
36	48-088	Seat Support	1

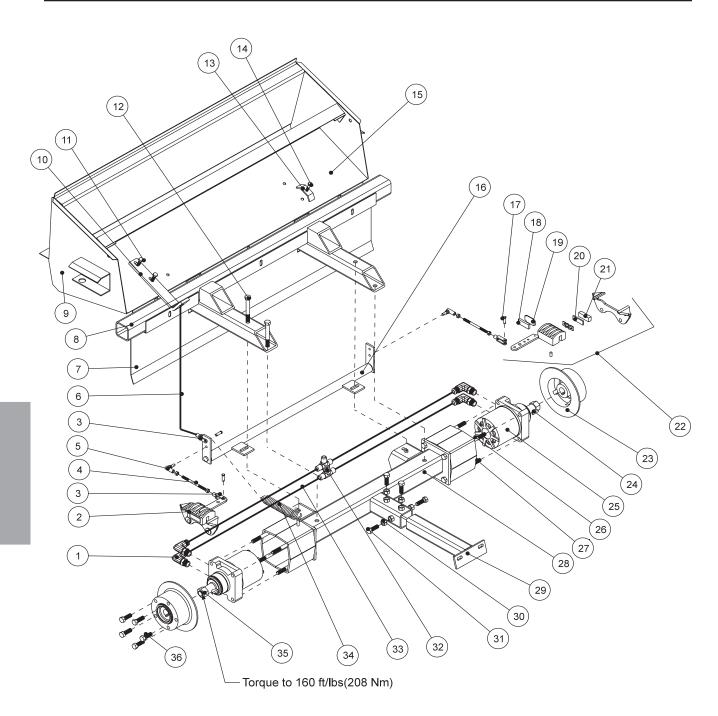




# REAR AXLE PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
1	34-122	Short Elbow	4
2	76-240	Left Caliper	1
3	11-100	Linkage Yoke 5/16	3
4	76-300	Brake Rod	2
	HN-516-24	Nut <sup>5</sup> / <sub>16</sub> - 24	6
5	21-462	Ball Joint <sup>5</sup> / <sub>16</sub> - 24	2
6	60-347	Brake Cable	1
_	60-536	Bellows	1
7	48-006	Rear Beater Panel	1
8	48-027	Main Frame	1
9	48-029	Grass Chute	1
4.0	8947-48	Trim Seal	2
10	48-134	Brake Cable Bracket	1
11	HB-38-16-125	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>4</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
4.0	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2
12	13-099	Clamp	2
13	HB-516-18-150	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1 <sup>1</sup> / <sub>2</sub>	3
14	HB-12-13-400	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 4	2
	HB-12-13-450	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 4 <sup>1</sup> / <sub>2</sub>	2
	HW-716	Washer 7/16	2
4.5	HNTL-12-13	Lock Nut <sup>1</sup> / <sub>2</sub> - 13	4
15	48-054	Rear Baffle	1
16	HB-58-11-250	Bolt <sup>5</sup> / <sub>8</sub> - 11 x 2 <sup>1</sup> / <sub>2</sub>	2
4 7	HMB-58-14	Machine Bushing <sup>5</sup> / <sub>8</sub> x 14GA	4
17	48-043	Rear Skid Pivot	1
18	HNTL-58-11	Lock Nut <sup>5</sup> / <sub>8</sub> - 11	3
19	HB-38-16-350	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 3 <sup>1</sup> / <sub>2</sub>	6
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	6
20	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	3 2
20	48-042	Linkage Strap (short)	
21 22	48-055 HCP-516-100	Brake Relay Clevis Pin 5/16 x 1	1 2
22	HP-18-075	Cotter Pin <sup>1</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	2
23*	HF-10-075	Carrier Side Pad	1
23 24*		Carrier Side Pad Support	1
25*		Cam Side Pad support	1
26*		Cam Side Pad Support	1
27	76-241	Right Caliper	1
28	76-239	Brake Disc	2
29	HWK-516-100	Woodruff Key <sup>5</sup> / <sub>16</sub> x 1 (comes with wheel motor)	2
30	48-137	Wheel motor	2
31	HB-12-13-800	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 8	4
01	HNTL-12-13	Lock Nut <sup>1</sup> / <sub>2</sub> - 13	4
32	HB-12-13-750	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 7 <sup>1</sup> / <sub>2</sub>	4
02	HNTL-12-13	Lock Nut <sup>1</sup> / <sub>2</sub> - 13	4
33	48-031	Rear Axle	1
34	48-039	Rear Skid	1
35	HCP-12-225	Clevis Pin <sup>1</sup> / <sub>2</sub> x 2 <sup>1</sup> / <sub>4</sub>	1
	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	1
36	48-040	Rear Pivot Arm	1
37	29-118	Zinc Plate Spring	1
38	14-265	Nut 1 - 20 (comes with wheel motor)	2
39	60-268	Lug Bolt <sup>1</sup> / <sub>2</sub> - 20 x 1 <sup>5</sup> / <sub>16</sub>	10
40	34-057	Tee	2
41	48-015	Hose	4
42	48-041	Linkage Strap (long)	1
43	75-614	Hose Clamp	1
44	HB-58-11-200	Bolt <sup>5</sup> / <sub>8</sub> - 11 x 2	1
*	34-101-02	Pad Kit with 2 Pads and Steel Support Plates	2 Kits per Axle

### REAR AXLE DRAWING (GROUND DUMP)

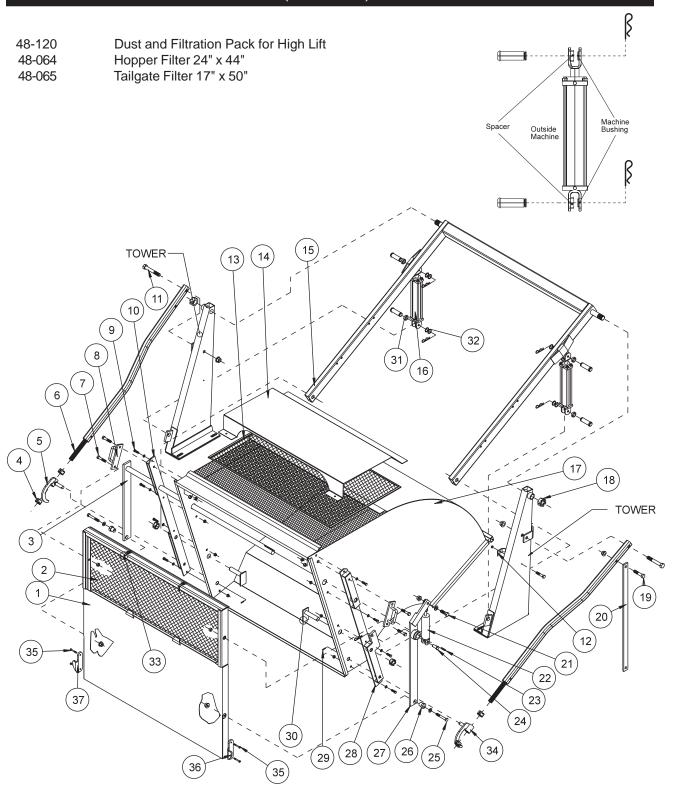


# REAR AXLE PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	34-122	Short Elbow	4
2	76-240	Left Caliper	1
3	11-100	Linkage Yoke 5/16	3
4	76-300	Brake Rod	2
	HN-516-24	Nut <sup>5</sup> / <sub>16</sub> - 24	6
5	21-462	Ball Joint <sup>5</sup> / <sub>16</sub> - 24	2
6	60-347	Brake Cable	1
· ·	60-536	Bellows	1
7	48-006	Rear Beater Panel	1
8	48-027	Main Frame	1
9	48-029	Grass Chute	1
10	48-134	Brake Cable Bracket	1
11	HB-38-16-125	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>4</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	4
	HNTL-38-16	Lock Nut <sup>3</sup> / <sub>8</sub> - 16	2
12	HB-12-13-400	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 4	2
12		Bolt 1/2 - 13 x 41/2	2
	HB-12-13-450 HW-716		2
		Washer <sup>7</sup> / <sub>16</sub>	
4.0	HNTL-12-13	Lock Nut 1/2 - 13	4
13	75-614	Hose Clamp	1
14	HB-516-18-150	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1 <sup>1</sup> / <sub>2</sub>	1
15	48-054	Rear Baffle	1
16	48-055	Brake Relay	1
17	HCP-516-100	Clevis Pin <sup>5</sup> / <sub>16</sub> x 1	2
	HP-18-075	Cotter Pin <sup>1</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	2
18*		Carrier Side Pad	1
19*		Carrier Side Pad Support	1
20*		Cam Side Pad support	1
21*		Cam Side Pad	1
22	76-241	Right Caliper	1
23	76-239	Brake Disc	2
24	HWK-516-100	Woodruff Key 5/16 x 1 (comes with wheel motor)	2
25	48-137	Wheel motor	2
26	HB-12-13-800	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 8	4
	HNTL-12-13	Lock Nut 1/2 - 13	4
27	HB-12-13-750	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 7 <sup>1</sup> / <sub>2</sub>	4
	HNTL-12-13	Lock Nut 1/2 - 13	4
28	48-119	Rear Axle	1
29	48-117	Hopper Support	1
30	HN-12-13	Nut <sup>1</sup> / <sub>2</sub> - 13	4
31	HB-12-13-150	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 1 <sup>1</sup> / <sub>2</sub>	4
32	34-057	Tee	2
33	48-015	Hose	4
34	29-118	Zinc Plate Spring	1
35	14-265	Nut 1 - 20 (comes with wheel motor)	2
36	60-268	Lug Bolt <sup>1</sup> / <sub>2</sub> - 20 x 1 <sup>5</sup> / <sub>16</sub>	10
		<b>3</b>	
*	34-101-02	Pad Kit with 2 Pads and Steel Support Plates	2 Kits per Axle



#### HOPPER AND TAILGATE DRAWING (HIGH LIFT)

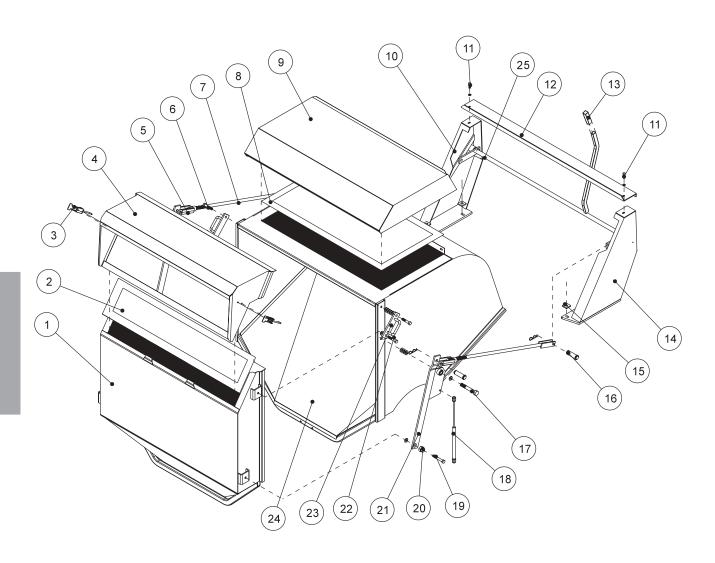




# HOPPER AND TAILGATE PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	OHANTITY
		DESCRIPTION	QUANTITY
1	48-005	Tailgate	1
2	48-023	Tailgate Screen	1
3 4	48-037	Left Dump Arm Castle Nut 1 - 14	1
5	HNA-100-14 48-153	Left Adjustment Sleeve	6
6	48-061	Hopper Dump Arm	1 2
O	75-653	Hopper Safety Lift (not pictured)	2
	HB-38-16-250	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 2 <sup>1</sup> / <sub>2</sub>	4
	HNW-38-16	Wing Nut <sup>3</sup> / <sub>8</sub> - 16	4
7	HB-12-13-250	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 2 <sup>1</sup> / <sub>2</sub>	2
•	HMB-12-14	Machine Bushing 1/2 x 12	8
	HNCL-12-13	Center Lock Nut 1/2 - 13	4
8	48-053	Tailgate Hinge	2
9	HB-38-16-125	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>4</sub>	8
	HNTL-38-16	Lock Nut 3/8 - 16	8
10	48-025	Left Hinge Strap	1
11	HB-34-10-500	Bolt <sup>3</sup> / <sub>4</sub> - 10 x 5	2
	HNTL-34-10	Lock Nut 3/4 - 10	2
12	13-099	Hose Clamp	2
	HB-516-18-125	Bolt <sup>5</sup> / <sub>16</sub> - 18 x 1 <sup>1</sup> / <sub>4</sub>	2
	HWL-516	Lock Washer 5/16	2
13	48-022	Hopper Screen	1
14	48-004	Hopper Screen Cover	1
15	48-044	Arm Pivot Tube	1
	48-131	Hose Guard	1
	76-159	Hose Guard Long	1
4.0	HDSPS-14-075	Stainless Steel Pan Head Drill Screw 1/4 x 3/4	4
16	76-242	Hydraulic Cylinder	2
4.7	76-242-02	Clevis Pin with Clip	4
17	48-007	Hopper Castle Nut 1 <sup>1</sup> / <sub>4</sub> - 12	1
18 19	HNA-114-12 HB-58-11-300	Bolt 5/8 - 11 x 3	2 1
19	HNTL-58-11	Lock Nut <sup>5</sup> / <sub>8</sub> - 11	1
20	48-041	Linkage Strap	1
21	HB-58-11-200	Bolt <sup>5</sup> / <sub>8</sub> - 11 x 2	2
21	HMB-58-14	Machine Bushing 5/8 x 14GA	2
	HNOT-58-11	Oval Top Lock Nut 5/8 - 11	1
22	75-714	Hydraulic Cylinder	1
	18-154	Rod End	1
	HNJ-58-18	Jam Nut <sup>5</sup> / <sub>8</sub> - 18	1
23	HKSQ-14-150	Machine Key 1/4 x 1/4 x 11/2	1
	HSSHS-516-18-050	Socket Set Screw 5/16 - 18 x 1/2	1
24	HCP-58-175	Clevis Pin 5/8 x 13/4	1
	HHP-18	Bridge Pin <sup>1</sup> / <sub>8</sub>	1
25	HB-12-13-350	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 3 <sup>1</sup> / <sub>2</sub>	2
	HW-12	Washer <sup>1</sup> / <sub>2</sub>	2
	HNTL-12-13	Lock Nut 1/2 - 13	2
26	48-057	Tailgate Adjuster	2
27	48-036	Right Dump Arm	1
28	48-024	Right Hinge Strap	1
29	HP-18-100	Cotter Pin 1/8 - 1	2
30	75-569	Swivel Pin	2 4
31 32	48-129 HMB-100-10	Spacer (inside of clevis to outside of machine)	
33	76-319	Machine Bushing 1 x 10GA (inside clevis; inside machine) Snap Fastener	3
33	HRS-316-050	Rivet <sup>3</sup> / <sub>16</sub> x <sup>1</sup> / <sub>2</sub>	3
34	48-148	Right Adjustment Sleeve	3 1
35	HB-14-20-200	Bolt <sup>1</sup> / <sub>4</sub> - 20 x 2	4
55	HNFL-14-20	Flange Whiz Lock Nut 1/4 - 20	4
36	48-149	Right Hook Bracket	1
37	48-150	Left Hook Bracket	1 🤝
	-		//





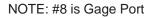


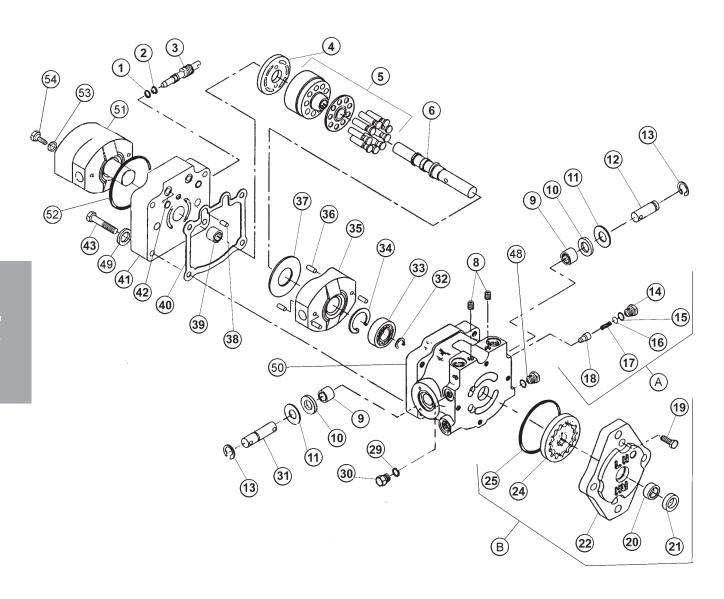
# HOPPER AND TAILGATE PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1	48-104	Tailgate	1
2*	48-063	Tailgate Filter Pack (optional)	1
3	48-115	Adjustable Draw Latch	2
	HB-14-20-075	Bolt 1/4 - 20 x 3/4	4
	HNTL-14-20	Lock Nut 1/4 - 20	4
4	48-103	Tailgate Cover	1
5	42-040	Yoke <sup>3</sup> / <sub>4</sub>	2
-	HNJ-34-10	Jam Nut 3/4 - 10	2
6	HB-12-13-200	Bolt 1/2 - 13 x 2	2
Ü	HNCL-12-13	Center Lock Nut 1/2 - 13	2
	HMB-12-14	Machine Bushing 1/2 x 14GA	8
7	48-097	Lift Rod	2
, 8*	48-122	Hopper Filter Pack (optional)	1
9	48-102	Hopper Cover	1
10		Left Tower	1
	48-091		2
11	HB-38-16-125	Bolt <sup>3</sup> / <sub>8</sub> - 16 x 1 <sup>1</sup> / <sub>4</sub>	2
	HW-38	Washer <sup>3</sup> / <sub>8</sub>	2
4.0	HNTL-38-16	Lock Nut 3/8 - 16	
12	48-094	Tower Support	1
13	48-078	Grip	1
14	48-090	Right Tower	1
15	76-151	Washer	4
16	HCP-34-175	Clevis Pin 3/4 x 13/4	4
	HHP-18	Bridge Pin 1/8	4
17	HB-34-10-400	Bolt <sup>3</sup> / <sub>4</sub> - 10 x 4	2
	HMB-34-10	Machine Bushing 3/4 - 10GA	10
	HNTL-34-10	Lock Nut 3/4 - 10	2
18	48-116	Gas Spring	2
	26-034	Ball Studs 10 mm	4
	HWL-516	Lock Washer 5/16	4
	HN-516-18	Nut <sup>5</sup> / <sub>16</sub> - 18	4
19	HB-12-13-200	Bolt 1/2 - 13 x 2	2
	HMB-12-14	Machine Bushing 1/2 - 14GA	2
	HNTL-12-13	Lock Nut 1/2 - 13	2
20	48-096	Tailgate Adjuster	2
21	48-098	Right Dump Arm	1
21	48-099	Left Dump Arm	1
	10-025	Flange Bushing	1 per
22	HB-12-13-150	Bolt <sup>1</sup> / <sub>2</sub> - 13 x 1 <sup>1</sup> / <sub>2</sub>	2
22	HMB-12-14	Machine Bushing 1/2 - 14GA	2
	HNTL-12-13	Lock Nut 1/2 - 13	2
22			2
23	48-053	Tailgate Hinge	1
24	48-101	Hopper	
25	48-095	Tailgate Dump Handle	1
*	48-121	Dust Filtration Pack Ground Dump (includes Ref# 2 and 8)	1 per



#### 76-32215 SERIES SUNDSTRAND PUMP DRAWING (HIGH LIFT)







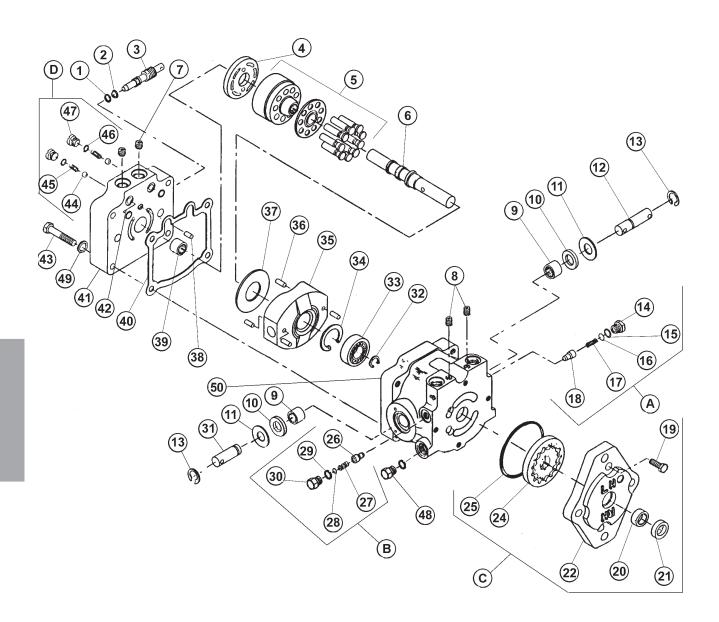
# 76-322 15 SERIES SUNDSTRAND PUMP PARTS LIST (HIGH LIFT)

REF#	PART#	DESCRIPTION	QUANTITY
1	42-003-01	O-Ring	1
2	14-130	Ring	1
3	13-110-01	By-Pass Valve	1
4	14-115	Valve Plate	1
5	42-003-16	Cylinder Block Kit	1
6	76-322-02	Pump Shaft	1
8	13-110-05	Pipe Plug	2
9	14-069	Needle Bearing	2
10*	42-003-04	Lip Seal	2
11	42-003-05	Washer	2
12	14-212	Truncated Shaft (short 1 holes)	1
13	14-105	Retaining Ring	2
14A	13-110-10	Plug	1
15*A	10 110 10	O-Ring	1
16A	14-219	Shim Pack Kit	1
17A	14-234	Release Valve Spring	1
18A	14-235	Release Valve Cone	1
19B	13-110-14	Hex Head Screw	4
20B	42-003-07	Needle Bearing	1
20B 21*B	14-054	Lip Seal	1
21 B	13-110-13	Charge Pump Housing	1
24B	42-003-08	Gerotor Assembly	1
25*B	42-003-08		1
		O-Ring	
29*	40 440 40	O-Ring	2
30	13-110-10	Plug	1
31	14-220	Truncated Shaft (long 2 holes)	1
32	42-003-09	Retaining Ring	1
33	42-003-10	Ball Bearing	1
34	14-132	Retaining Ring	1
35	14-221	Variable Swash Plate	1
36	14-216	Spring Pin	4
37	14-114	Thrust Plate	1
38	14-215	Pin	1
39	14-217	Roller Bearing	1
40*	14-107	Gasket	1
41	76-322-01	End Cap	1
42*	40,000,44	O-Ring	2
43	42-003-11	Hex Head Screw	4
48	42-003-12	Plug	2
49	42-003-13	Washer	1
50	42-003-17	Housing Assembly (includes #9 & 10)	1
51†	76-323	Gear Pump (non-repairable)	1
		r Pump also order # 52, 53, 54	
52	76-322-03	O-Ring	1
53	76-322-04	Washer	2
54	76-322-05	Screw	2
*	14-098	Seal Kit	1
†		Parts are not available. Replace with new unit.	·
	14-214	•	4
A		Relief Valve Kit	1
В	42-003-14	Charge Pump	1



#### 42-003 HYDROSTATIC PUMP DRAWING (GROUND DUMP)

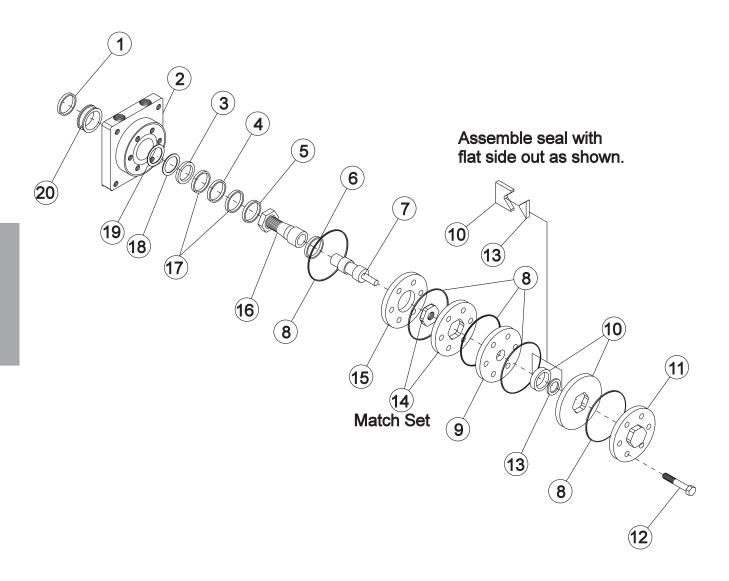
NOTE: #8 is Gage Port



# 42-003 HYDROSTATIC PUMP PARTS LIST (GROUND DUMP)

REF#	PART#	DESCRIPTION	QUANTITY
1*	42-003-01	O-Ring	1
2	14-130	Ring	1
3	13-110-01	By-Pass Valve	1
4	14-115	Valve Plate	1
5	42-003-16	Cylinder Block Kit	1
6	42-003-02	Pump Shaft	1
7	42-003-03	Plug	2
8	13-110-05	Pipe Plug	2
9	14-069	Needle Bearing	2
10*	14-014	Lip Seal	2
11	42-003-05	Washer	2
12	14-220	Truncated Shaft (long 2 holes)	1
13	14-105	Retaining Ring	2
14A	13-110-10	Plug	1
15*A		O-Ring	1
16A	14-219	Shim Pack Kit	1
17A	14-263	Release Valve Spring	1
18A	42-003-06	Release Valve Cone	1
19C	13-110-14	Hex Head Screw	4
20C	42-003-07	Needle Bearing	1
21*C	14-054	Lip Seal	1
22C	13-110-13	Charge Pump Housing	1
24C	42-003-08	Gerotor	1
25*C		O-Ring	1
26B	14-235	Release Valve Cone	1
27B	14-234	Check Release Valve Spring	1
28B	14-219	Shim Pack Kit	1
29*B	40 440 40	O-Ring	1
30B	13-110-10	Plug	1
31	14-212	Truncated Shaft (short 1 hole)	1
32	42-003-09	Retaining Ring	1
33	42-003-10	Ball Bearing	1 1
34 35	14-132 14-221	Retaining Ring Variable Swash Plate	1
36	14-221	Spring Pin	4
37	14-210	Thrust Plate	1
38	14-114	Pin	1
39	14-217	Roller Bearing	1
40*	14-107	Gasket	1
41	42-003-15	Pump End Cap	1
42*	42 000 10	O-Ring	2
43	42-003-11	Hex Head Screw	4
44D	13-110-09	Ball	2
45D	13-110-08	Check Valve Spring	2
46*D	10 110 00	O-Ring	2
47D	13-110-07	Check Valve Plug	2
48	42-003-12	Plug	2
49	42-003-13	Washer	1
50	42-003-17	Housing Assembly (includes #9 & 10)	1
			·
*	14-098	Seal Kit	1
Α	13-110-17	Implement Valve Kit	1
В	14-214	Charge Pump Valve Kit	1
С	42-003-14	Charge Pump	1
D	13-110-16	Check Valve Kit	2
_			_



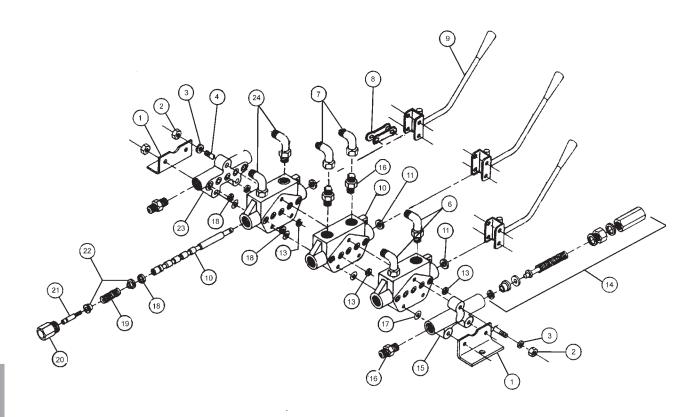




# 48-137 REAR WHEEL MOTOR (10.3 C.I.) PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1*		Water & Dirt Seal	1
2	13-615-05	Service Housing Assembly (includes #4,5,17(2 Req	'd) and 20) 1
3*		Inner Seal	1
4	13-032-27	Thrust Bearing	1
5	13-032-28	Inner Bearing	1
6	13-032-29	Thrust Bearing	1
7	48-137-01	Drive Link	1
8*		Ring Seal	5
9	13-032-31	Manifold	1
10	13-032-32	Commulator Assembly (matched set)	1
11	13-032-33	End Cover	1
12	48-137-02	Bolt	7
13*		Commulator Seal (matches with #10)	1
14	48-137-03	Rotor Set (matched set)	1
15	13-032-35	Plate Wear	1
16	13-615-04	Coupling Shaft	1
	HWK-516-100	Woodruff Key 5/16 x 1	1
	14-265	Nut 1 - 20	1
17	13-032-37	Thrust Washer	2
18*		Backup Washer	1
19*		Backup Washer	1
20	13-032-38	Outer Bearing	1
*	14-080	Seal Kit	1

# 76-023 3-BANK HYDRAULIC VALVE DRAWING





# 76-023 3 -BANK HYDRAULIC VALVE PARTS LIST

REF#	PART#	DESCRIPTION	QUANTITY
1	76-023-03	Mounting Bracket	2
2	HN-516-18	Hex Nut 5/16 - 18	6
3	HW-14	Washer 1/4	2
4	76-023-06	Tie Rod	3
6	18-168	Elbow 90°	4
7	18-202	Elbow 90°	2
8		Linkage (comes with handle)	
9	76-309	Valve Handle (sold as a set of 3)	1
10	76-023-07	Body and Spool (matching set)	3
11*		In-body O-Ring	3
13*		O-Ring	15
14	76-023-08	Inlet Kit (load check and relief, 2000 psi)	1
15		Inlet with Load Check	1
16	18-169	Adapter	4
17*		Mylar Shim	9
18*		O-Ring	3
19		Spring (type 10 spool)	3
20	76-023-01	Spring Cap	3
21	76-023-02	Spring Shaft	3
22	76-023-09	Spring Guide	6
23	76-023-10	Outlet Open Center	1
*	14-096	O-Ring Seal Kit (includes all * items)	1



#### DECAL LIST

This is a list of decals on the Sweep Star 48. Part number, description, and location will help in reordering decals.

16-088*	Moving Parts/Hot	Belt Guard
25-078	No Riders	Engine Cover
25-277*	Battery	Seat Panel
25-286	Pinch Point	Tailgate
25-297	Hot Hyd/Pinch Point	Belt Guard
25-308	Engine RPM	Front Engine
25-307*	Gasoline	Console Back
25-313*	Warning Grade	Dashboard
25-320*	Max Weight	Front Hopper
25-352	Bypass Valve	Hang Tag
25-356	Tire Pressure (20 psi)	All Wheels
25-361	Decal, Technical Assistance	Main Frame
25-362	Decal, Danger Fire	Hopper Front
27-093*	Hydraulic Oil	Console Back
34-147	Smithco Star	Hopper Sides
48-146	Sweep Star 48 L	Hopper Sides (Ground Dump)
48-185	Console Panel	Console (Ground Dump)
48-108	Foot Pedal	Dashboard (Ground Dump)
48-145	Sweep Star 48 H	Hopper Sides (High Lift)
48-130	Beater Disengage	Dash board
48-138	Reel Height Adj.	Baffle
25-359	Smithco	Tailgate
75-651	Hopper Lift Safety Bar	Lift Bars on Hopper Sides
76-199	Console Panel	Console (High Lift)
76-304*	Crush/Pinch Points	Front Grass Chute
76-305*	Moving Reel	Grass Chute
76-306*	Reel Arm	Next to Reel Lever
76-307*	Tower Warning	Tower Sides
76-315*	Belt	Left Side Grass Chute

\* 48-136 Decal Sweeper Set (includes all \* items)

#### QUICK REFERENCE REPLACEMENT PARTS

REPLACEMENT FILTERS

23-031 Hydraulic Oil Filter (Ground Dump) 48-083-01 Hydraulic Oil Filter (High Dump)

78-090 Oil Filter Kohler# 12 050 01 76-324-01 Air Element Kohler# 28 083 03 76-324-02 Pre-Cleaner Kohler# 28 083 02

50-403 Fuel Filter for Kohler

REPLACEMENT BELTS

76-200 Finger Reel Belt 2/A74

**SEAL KITS** 

76-023 3-Bank Hydraulic Valve

14-096 O-Ring Seal Kit

76-322 Hydrostatic Pump (High Lift) 42-003 Hydrostatic Pump (Ground Dump)

14-098 Seal Kit

76-323 Gear Pump (non-repairable)

48-137 Wheel Motor 14-080 Seal Kit

76-242 Hydraulic Cylinder

76-242-01 Seal Kit

Both Cylinders have the part number stamped on them. Look at the rod end, it will have either a retaining ring or a spanner nut.

#### **Cylinders with a Spanner Nut:**

75-714 Hydraulic Cylinder Use 14-268 Seal Kit 75-634 Hydraulic Cylinder Use 14-268 Seal Kit

#### **Cylinders with a Retaining Ring:**

75-714 Hydraulic Cylinder Use 14-254 Seal Kit 75-634 Hydraulic Cylinder Use 14-254 Seal Kit

**FLUIDS** 

Engine Oil Kohler SJ or Higher 10W-30 Hydraulic Fluid SJ or Higher 10W-40

OTHER PARTS

13-288 Key Switch Kohler Kohler 25 099 04

Spark Plugs Champion® type RC 12YC or Equivalent

Gap 0.030 (.76 mm)

Torque 18/22 ft. lbs (24/30 Nm)

Spline Grease #77 Assembly Paste (Kohler # 25 357 12-s) 76-354 21/2 # ABC Dry Chemical Fire Extinguisher

DUST AND FILTRATION FILTERS

48-064 Hopper Filter (High Lift)
48-065 Tailgate Filter (High Lift)
48-063 Tailgate Filter (Ground Dump)
48-122 Hopper Filter (Ground Dump)



#### LIMITED WARRANTY

SMITHCO warrants this product to be free from defects in material and workmanship under normal use for one year from the date of purchase by the original user. (60 days if product is used for rental purposes.) All warranty claims must be handled through a SMITHCO authorized dealer or by SMITHCO, INC. All transportation charges must be paid by the purchaser.

There is no further express warranty. All implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year, (60 days if product is used for rental purposes) from the date of purchase by the original user, and to the extent permitted by law any and all implied warranties are excluded and disclaimed after the expiration of such period.

All incidental and consequential damages, including pickup and delivery of the unit, communication, mileage charges and/or rental of a replacement unit during repair, are not covered under this warranty, nor is any loss of income and/or other loss resulting from the failure of the product to function due to a warranty defect.

The following items are not covered under the SMITHCO warranty, and are warranted by their respective manufacturer.

- (a) Engine and engine parts, including starters, generators, alternators and filters.
- (b) Transaxle, differentials, gear boxes and mechanical pumps.
- (c) Hydrostatic transmissions, hydraulic pumps and motors.
- (d) Batteries.
- (e) Wheels and tires.

A copy of the warranty for the above items is furnished if necessary with each SMITHCO product.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state.

Federal law now requires disclosure of the warranty which applies to this product prior to the sale to a customer. Please leave this statement attached to the product and allow the buyer to remove it after purchase.



